# AMERICAN RAILROAD JOURN

## STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

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#### American Railroad Journal

Saturday, November 27, 1852.

No. 21 Tokenhouse Yard, London, November 1, 1852.

Dear Sir: In reply to your enquiry respecting the late, the present and the probable future price of iron and other articles, which have risen so much in this country, I beg to state as follows, viz:

Pig iron, free on board in Cardiff and Newportthe great shipping ports in Wales for this article, is now at .....£3 7 6 per ton. The price in April last before any

advance took place, was....... Welch merchant bar iron, free on board is now at.... In April, before any advance, it was at.... Railway bar iron was in April, before any advance ..... Now it is very firm for cash free on board\*..... 7 15 0 "

In London, the price of bar iron is usually £1 per ton higher than in the shipping ports of Wales, to pay the expenses of freight, insurance and other charges. The iron from Staffordshire and other Midland counties being of better quality for many purposes, though, not for rails, is usually £1 per ton higher than Welch merchant bar iron.

In Glasgow, which is the great market for Scotch pig iron, the price in May last, before any advance

The present price of this article is 3 0 0

This article being smelted with hot blast, is very fluid and easily melted, and is considered too tender and too frangible for heavy castings, but when intended for light castings it answers perfectly well, States, it does very well for strong castings. The production of Glasgow pig iron is got up to the enormous amount of 700,000 tons since 30 years.-30,000 tons. Before the advance in railway bars, in April last, the Welch iron masters were glad to -they took a great deal of trash-and I fear will regret it hereafter, but since the great advance in price nothing but cash, no matter how respectable the railway bonds may be, will be now taken, and some of the sellers require a deposit of £1 or £1,-10 per ton at the time of taking the order. There is a wonderful change. In the first 4 months of this year it was a great favor to get an order for rails, now it is a great favor to accept one. The iron masters lately so eager for orders, are now indifferent, and most exacting in their terms of payment, delivery and other conditions. "You enquire the cause of the great advance in iron. There are several causes. 1st, The late low price continued for several years has stimulated consump-Cotton crop, added to the very low price of food, and to the extraordinary influx of gold from California and Australia, have unitedly given an impetus to trade and enterprises of every description, which causes a most extraordinary demand for iron, which is the article latest in feeling any depression in trade, and always the first to feel the advantage of improvements in trade, and continues the longest to profit by the activity of general trade. This is naturally to be supposed, from the fact, that iron is the article most promotive of the civilization and progress of modern Nations, and is the most indispensable article after clothing and food. The objects for which the greatest consumption of iron has recently taken place are in ship building, house building and railways.

I am sorry to say that Great Britain has a decided advantage over France and the United States in the cheapness of iron and coal, which enables her

screw propellers, with an economy that will throw our two nations into the shade, unless we in America can improve our manufacture of iron so as to bring it down to nearly the same level in price as in England. As evidence of the increase of iron and, when mingled with the tough pig iron of in ship building, I will mention one or two facts. Wales and other parts of England and the United In April last I was offered ship (iron) plates at £6,-10 per ton. To-day, the same article cannot be bought under £10,5 per ton. In the Clyde (say at Dumbarton, Greenock, and Glasgow,) there were About 1820 the production did not exceed 25,000 or 247 steamers built in the last 7 years, of which only 14 were of wood hulls, whilst 233 were of iron hulls. Out of the 247 there were 141 side wheel steamers, take American railway bonds in payment for rails and 106 screw propellers. The tonnage of wooden was 18,331 tons; of the iron steamers it was 129 273 tons. The above facts related to the time up to the 31st December, 1851, but since the 1st of January, 1852, there were 73 steamers built or now building in the Clyde, of which only 4 are of wood, and 69 are of iron, whilst the proportion of screws to side wheel steamers is as 43 to 30. Wooden hulls irrespective of cost of engines, boilers and machinery, and of all furnishings which are the same for both wood and iron, cost £14 per ton. Iron hulls, as above, cost £12 per ton. The port of Sunderland launched 87 vessels, of 33,765 tons, in the last six months, most of which were iron hulls, whilst New York launched only 33 vessels, of 22,245 tons, and probably not one of them was of iron. This fact tion. 2nd, The great abundance of the American will tell against American navigation before long. Iron hulls are much lighter, and consequently more buoyant and draw less water, they are more capacious, more strong, more durable as well as less in first cost. Lately there is a mode of preparing the iron adopted, which prevents barnacles and sea weeds from growing to the bottoms of iron hulls .-This greatest of difficulties in regard to iron ships being overcome, there is no question that iron (in England) will supersede timber ships, and I dread the supremacy it will give England over America.\*

Next, as regards the consumption of iron in the construction of houses. The use of girders, columns, posts, of cast iron, and of iron window sills and frames, stairs, railings, etc., and of iron for other

<sup>\*</sup> This article, rails, cannot be bought under £8 per ton to day, for eash, against bill of lading, and the manufacturers talk of its getting up to £10 per ton, before a great while.—November 5, 1852.

<sup>\*</sup> I know timber ships can be built cheaper in America than timber ships can be built in Eng-land, but still the very great superiority of iron ships over timber ships will give them a prefer-

etc., is becoming very general. Indeed, in large not considered good enough for English railways, buildings of every description iron is almost superseding wood, being preferred on account of its lightness, durability and non-combustible nature.

But the grand consumption of iron is for rail-

Wavs.

In Great Britain, besides the rails required for new roads, it is estimated that at least 400 tons per diem are required to replace the old rails which are taken up and superseded by much heavier rails .-The original rails on the Liverpool and Manchester railway were of 40 lbs. per yard, now they are about 90 lbs. per yard, and all the rails now being laid down will be upwards of 85 lbs. per yard, and on towards 112 lbs. per yard, and even 149 lbs. per yard for saddle rail, as a maximum. Instead of wooden sleepers and cross-ties, those of iron are substituted. In the United States for the 2,500 miles of railway building the present year, at 200 tons per mile, there ought to be an export of 500,-000 tons of rails, to say nothing of the iron required for locomotives, tenders, wheels, axles, and other parts which is generally made in the United States. From Russia a single order, viz: for the St. Petersburgh and Warsaw railway, for 153,000 tons, has been given out. Of this quantity 140,000 tons will be of rails, and 13,000 tons of chairs, spikes, etc .-For Germany, Italy, Spain, Denmark, Sweden, Norway, Russia, Hindostan, Chili, Peru and Brazil, the orders for rails as well as locomotives, tenders and all other furniture for railways, must be executed in this country, and the demand for iron from these countries has increased wonderfully within 6 months, and likely to be very much extended .-With these facts before us, I may say there is no prospect of an early decline in the price of iron, but on the contrary, a further advance is expected .-Besides, wages are advancing and workmen are men of Monmouth and Glamorganshires, left for America and Australia in the last 12 months. The best workmen-the most sober-the most industrious-the most enterprising are generally the emigrants, and their fellow workmen contribute the means to their going abroad, with the view of diminishing the competition in the labor markets, and when down in the Welch iron region the other day, I was told that laborers and great numbers of good iron workmen were wanted, but could not be procured. There is always a great evil attending high wages-they are the means of diminishing production instead of increasing it. Having the ability to indulge in the national vice of intemperance, to a greater degree, when wages are high the workmen instead of devoting only Sunday and "St. Monday" to drinking and dissipation, now add Tuesday and sometimes Wednesday to their holidays. The greatest production of iron is when wages are low and demand good and steady. Then the workmen can only indulge in drinking on Sunday and Monday, and many of them not even the latter day, and of course they produce more work, cepts of Father Mathew. have better health, and everything goes on more respectably. The only reason for expecting a diprice, and its probable advance, which invariably, in time, checks consumption in the same way as cheapness always stimulates consumption.

You enquire about the quality of the iron sent to America, the Americans neglect the best article, and for cheapness send for an inferior quality .-

parts of houses, as well as corrugated iron for roofs, But the rails made for America in Wales, though are generally speaking very tough, difficult to be broken, and are good enough, but every individual rail ought to be inspected before it goes on board of ship. The American iron masters make good rails, because they generally use Charcoal iron, and the American railway companies could get the best rails here, if they would only pay for them. The make of iron (pigs) in Great Britain, in 1852, will be about 31 millions of tons. I hope in the United States it will get up this year to 500,000 tons of pigs, and next year that it will be as high as it ever was-say 700,000 tons of pigs.

You enquire of other articles that have risen in price in England. There are several articles which have advanced exceedingly. An American article, turpentine, has advanced £9 per ton, within a few months. Oil, tallow, rice, timber, lead-all American articles have advanced very much. I am sorry to see that lead, which was formerly an export from our country, has been sent into the United States from England and Spain in large quantities. This is owing to the lead miners of the north west having gone off to the "gold diggins" of California. Copper, an interesting article for America because of the Lake Superior copper mines, claims more notice, copper has advanced from £88 per ton in April last, to £105 per ton to-day. The consumption is increasing exceedingly. Every narrow guage (4 feet 81 inch) railway locomotive ought to have nearly 5 tons of copper and brass about it .-Every broad guage (7 feet) railway locomotive ought to have fully 5 tons of copper and brass about it. There are about 4,000 locomotives in Europe and the United States, and they are all daily and constantly consuming copper by burning out fire boxes, etc. So in all the steam engines and steamers, the consumption of copper and brass is very diminishing. No less than 6,000 of the best iron great. On board of the "Prince Albert" (Government propeller) of 120 guns, the consumption of copper and brass ought to be at least 100 tons; for her propeller ought to be made of copper. The use of copper and brass for machinery for the textile fabrics, as well as for engineering purposes is very great, and immensely increasing. A great reduction in price would increase the consumption am-

You enquire the cause of the advance in price of the other articles as well as iron. I think the same reason may be given as I have stated above, viz: The general prosperity of the country arising from cotton, food and clothing, being in great abund-

You enquire also if wages have risen generally. I reply yes, and throughout all branches of business and all parts of the country,\* even down to that hitherto almost hopeless being, the agricultural laborer. Emigration to America, Cape of Good Hope and Australia, is the principal cause for this advance-a blessed thing for the workmen and poor laborers if they would only be guided by the pre-

You enquire lastly "at what price for British iron would it be better for the manufacturers of the arminution in the price of iron, is the present high ticle in the United States to prepare it for themselves." In reply, I say that American iron is every way superior as a general rule, to British iron, because it is usually made with charcoal fuel, (and

latterly, but partially with anthracite,) instead of coke of bituminous coal, and besides the ores used in America are generally better than the British ores, and for merchant bars and the higher qualities of iron, and especially for steel, I should say that if English common iron can be sold in the United States at \$40 per ton, that for general purposes American consumers ought to pay \$60 per ton in preference for American iron. I repeat that my remark applies particularly to the best sorts of iron, and not to railroad iron, for I believe the well made-the properly made-Welch rails-are as good for railroads as they need be, and it would be an extravagance to have rails made of the best American charcoal iron. The Americans ought to prevent the Swedes and Russians from sending their charcoal iron to our country-by making the same qualities as come from these distant countries. (paying excessively high freights and mercantile charges, as well as duty, and as regards Russia on inland transportation of iron from Siberia to St. Petersburg, of from 2,000 to 3,000 versts) so cheaply as to discourage importations of charcoal iron. all of which ought to be made within our own territories, which have far superior tacilities and all the elements for the iron manufacture over both Sweden and Russia, but particularly the latter .-The United States ought to make the best iron in the world, and so cheaply as to exclude foreign importations. But my country, I am sorry to say, cannot yet compete with Great Britain in making common iron as cheaply as she can, and as the requirements of civilization and progress (particularly as connected with railways) demand. Railroad iron ought in America to be as cheap as possible, and then the American iron master will have an unlimited demand for his charcoal iron. The American iron master ought to say " let there be no duty on English rails."

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#### The Commercial Cities of the Scaboard.

Cities are congregations of men drawn together artificially-dependent for existence upon the existence of others without the city. They have been denominated sores upon the body politic; yet they perform great uses. They return value received to the country for its supplies. Being dependent upon circumstances, cities cannot be built and go on prosperously for many years without favorable locations. They demand situations contiguous to fine agricultural regions; if commercial cities, they must have water facilities for harbors of shelter, for the erection of docks and warehouses, for manufacturing purposes, and for the free use of the inhabitants. Fuel must also be found in abundance at a convenient distance, from whence it may be transported at will to supply all varieties of demand, and at trifling cost. That the food necessary to support life may find easy transport from the rural districts, channels of communication, which will afford cheap and rapid transit from country to city, are highly important. In short, as it is upon the interior of the country that commercial cities must look for the traffic which sustains them, an easy communication with it is indispensable to their prosperity. For it is obvious that cities must be built up either by commerce or manufactures, or both combined. The word commerce is here used in its most comprehensive sense, and combines all kinds of sale, exchange, trade and transport. The city, then, which has the best communications with the great heart of the country upon which it must rely for customers in these branches of business, and which, besides, possesses great

<sup>\*</sup> The North British Advertiser, a great advertising paper of Edinburgh, had last week, adver-tisements for 80 situations vacant, whilst there The English always buy the best article for them-were only 7 persons advertising for situations. This selves—our countrymen generally do the reverse, was never heard of before!

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communications, must get the best of the race for have continued steadily to advance in population commercial greatness.

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article giving some account of the inland com- or river capable of furnishing anchorage for the merce of the great interior country lying between fleets of the world, and all have more or less of the Rocky and Allegheny ridges, and its routes to natural channels of communication with the surthe seaboard, together with some general state- rounding country. How have they grown, and ments of the amount and value of the "total move- why some more rapidly than others, is a natural ment" on some of the more important internal question. It will be found that those have grown channels. It is the object of this article to follow most rapidly which have had the best internal comup the effects of this internal trade upon the cities munication with the greatest extent of inland of the seaboard, to define in some measure the country. relative importance of the interior to the coast, and to look a little to the future and its requirements, population only from 1800 to 1850. in order that a continuance of past success may be of itself; that the more freely trade and commerce and 1850 was as follows: are allowed to flow, the better it will be for all parties in the end; that each place and country will find its appropriate sphere and level, sooner or later, and therefore it were better left untrammelled and free-without training or speculation. Not- This would show an average period of duplication ine a little into the past of our commercial cities, years; Boston 23 years; and for Baltimore ot 21 tracing their progress to the present, and discover years. if possible whether the results are the effects of a natural and free course of trade, or whether they riods of duplication during a series of census emmay be partly attributed to the influences emanat-bracing a period of 60 years previous to 1850.: ing from artificial channels constructed through the efforts and at the instance of farseeing and enlightened, though prudent, statesmen and capitalists.

Our principal commercial cities on the seaboard are New York, Boston, Philadelphia and Baltimore. These have been the great commercial centres of the past in this country. New Orleans and other nation. Labor was here promised a better most conducive to those ends. reward than it received in Europe. Earth was We have already seen that the requisites to the exerted to such an end.

natural facilities in the way of harbors and oceanic among the first settlements of the colonies, and and wealth from the period of their commencement In the Journal of last week, there appeared an to the present time. Each is situated upon a bay

For the present we will take them in point of

A writer in Hunt's Merchants' Magazine, J. W. secured. It may be said, and with a great deal of Scott, Esq., of Toledo, Ohio, assumes that the plausibility, perhaps, that the future will take care population of these cities and their suburbs in 1800

	1800.	1850.
New York	63,000	650,000
Philadelphia	73.000	450,000
Boston	38.000	42,000
Baltimore	26,614	190,000
		the second second

withstanding all this, bowever, we desire to exam- for New York of 141 years; for Philadelphia of 20

The same writer gives the following average pe-

			Aver	age for		
	last	last	last	last	last	last
	60	50	40	30	20	10
	years,	do.	do.	do.	do.	do.
	New York15 Philadelphia18	141	15	13	15	12
•	Philadelphia 18	20	181	16	17	121
۰	Boston21	23	181	15	20	12
	Baltimore15	21	21	25	10	13

Mobile on the Gulf of Mexico, Savannah and By these figures it will appear that although N. Charleston on the Atlantic, and Montreal and Que- York still leads the rest and far exceeds any one of bec on the St. Lawrence, will all deal largely with them in numbers, yet, Boston which, twenty years the futurity of commerce, as they have no slight since was the farthest in the rear, in point of her effect upon its present. All the cities mentioned period of duplication, has now arrived to an equalshare largely in natural advantages. They have ity. During the ten years previous to 1840, we find harbor facilities equal to their wants present and her period of duplication twenty years, while durprospective. All are surrounded with lands, rich ing the ten years succeeding that time it is shown in soils, minerals and whilom forests. They are to have been but twelve. New York, therefore reintegral portions of a country in which popular in- duced her period of duplication in the ten years stitutions prevail; in which the voice of the peo- Preceding 1850 only three years, Philadelphia four ple rules: where civil and religious liberty, and a and one half, Boston eight, and Baltimore five and protection of life and property are guaranteed to one half. There must have been causes for these every inhabitant. The lands, rich in everything reductions during that particular period, as distinwhich attracts the eye and admiration of the agri- guished from previous periods in the first place, culturist, have always been offered the purchaser at and in the second there must have been causes for a mere nominal rate. It is not strange that with all the differences of reduction at the several points. It these natural and political advantages, our country is also a matter of interest to ascertain what these should have attracted from the old world a large causes were; whether they were local or general, population, which has assisted to develop the re- results of natural influences, or the results of comsources of the country, build up towns, cities and bined organizations of men, formed to divert the year as in other portions of the country. villages, and encourage both foreign and internal business which supports a city population from commerce more rapidly than ever before in any one point to another by the powers of attraction

cheap, and its products could at least sustain life, rapid and healthy growth of a commercial and manwhich was more than could always be done there. ufacturing city are cheap food, cheap rent, cheap Staten Island, besides contributing largely to the If, therefore, the United States had not grown as fuel, cheap timber, and a good harbor and anchorrapidly as they have done under all the circum- age of great capacity. These involve, among othstances, it would have been more cause for won- er things, easy and rapid communication with a der than is their present prosperity and greatness. large, well wooded, well watered and fertile coun-Her cities on the Atlantic, Boston, New York, try, which shall supply the food and lumber, the Philadelphia and Baltimore, could scarcely have same communication with coal beds which shall avoided becoming great, even had their efforts been furnish the fuel. Now, how are our four Atlantic railways and steamers in a few minutes or hours, cities situated in these respects ?-Similarly or va- they are selected as cheaper residences by business These four cities are nearly as old as the coun-riously. They all have good and capacious har-

has the most attractive one, on account of its perfect safety, immense capacity, and great depth of water, united with its immediate connection with the ocean at a distance of only a few miles from her dock. Boston is probably next in these respects, while both Philadelphia and Baltimore, besides being farther south are situated on deep inlets or bays and rivers whose outlets to the ocean and by which sea-going craft must enter, are many miles farther south than the respective cities. This, it will be seen, causes a vessel bound to northern or commercial Europe, first, to sail considerably south of its starting point toget outside when it must retrace its steps, its destination being several degrees to the northward. In these latter days of steam and electricity, of clipper ships and caloric engines, time is an important item. In point of connection with the inland country, New York and Philadelphia not only had the best natural communications with the most extended tracts, but also the best artificial, till the actual commencement of the rallroad era, when Boston led all the rest, as has been seen, in the developements of the last ten years. The Hudson and Mohawk were to New York what the Delaware was to Philadelphia, and the Susquehanna to Baltimore, and the Merrimack in some measure to Boston. Besides these principal ones were smaller streams making other districts of country tributary to each of these cities. Previous to the construction of canals, it is most probable that Philadelphia had more internal navigation tributary to her commerce than New York even. Below we give a table showing the census of the four cities as far back as we have the figures at hand.

1 -12	City and Co.	City & Co	,	U3054
0157	of	of	17/10 19	Balti-
Years	New York. P	hiladelphia.	Boston.	more.
1790	33,131	54,391	18,038	13,503
1800	60,489	81,009	24,297	26,515
1810	96,373	111,210	35,250	46,455
1820	123,706	137,097	43,298	62,738
1830	203,007	188,961	61,392	80,625
1840	312,710	258,037	98,383	102,313
1850	517.849	409.045	138.788	189.038

We had partially prepared tables to follow this, showing the foreign imports at the several ports, during the same periods of ten years, but owing to lack of the requisite data to fill them out properly, we are obliged to omit them as well as others exhibiting the value of real and personal property in the several cities at different dates. These tables, however, are not absolutely necessary to our purpose. They would only serve to show the changes in foreign import commerce. After the opening of the Erie canal, the foreign imports at New York advanced rapidly, while those of Philadelphia remained nearly stationary, fluctuating from year to

In reference to the table of population, let us remark, that the city and county of New York comprises Manhattan Island only; while the business of the city has built up Brooklyn, Williamsburgh, Jersey City, Hoboken, and numerous villas on population of Newark, Elizabethtown, Rahway, Paterson and New Brunswick, in New Jersey, Jamaica, Bushwick, and Flushing, Long Island, Morisania, New Rochelle, and numerous other villages in the States of New York, New Jersey and Connecticut. These places being accessible by men and laborers than can be found within try in which they are situated. They were all bors, but, considering all things, perhaps New York limits of the city. The same may apply to

though the latter city and county comprises very nearly all her inhabitants. At this date, therefore, the number of people, properly inhabitants of New York and suburbs, who obtain a livelihood from the business of that great commercial centre, is not less than 800,000; of Philadelphia 550,000; of Boston 265,000; and of Baltimore 228,000. It has been urged that there were discrepancies in the census of 1850, because New York did not poll as many votes in proportion to its population, as Philadelphia, Boston and Baltimore. The statistics of emigration and naturalization account for these discrepancies satisfactorily. When it is considered that New York has a very large foreign population not intending to become citizens, their residence being merely a business one: that three-fourths to seveneighths of all the vast emigration into the entire country land there and remain for a longer or shorter period; and finally that thousands are naturalized every year, who have had a preparatory residence previous, this idea becomes extinct.

It will also be observed in reference to this table, that from the National census of 1790 to that of greater extent of country. She was settled by a both land and water carriage. At Albany she consettlers of New York. These facts told on her the canal and lakes. From this moment, New York grew more rapidly; she had been gaining some since 1790, but it was not till this roadway for transportation was opened, that she made rapid strides ahead. This channel gave her the key ts the great west, and she at once became the distributor of the foreign commerce to the west. Philadelphia could go to the Alleghanies-she could not for the very purpose of encouraging Boston to go through or over them with heavy goods. New York could go around them and thus send merchandise to, and receive the products from, the vallies of Alleghany. The genius of CLINTON triumphed .-But it is very questionable whether New York would have obtained the ascendancy, even, with her superior oceanic connection, had not nature favored her vastly to the prejudice of her rival .-Even now, it was not that Philadelphia grew the less, but New York the more rapidly; not a diversion, so much as an accession, of trade.

In regard to foreign importations, allow us to rewere \$13,696,000; in 1836, \$16,116,000; in 1839, \$14,753,000; and in 1847, \$12,145,000. New York importations though fluctuating with the general imports of the country have greatly increased, till finally she has become the great entrepot of the whole country, the new inland country we mean, Valley. The importations of Boston and Baltimore have kept pace with the wants of the surrounding country, Boston having threaded a great portion of New England with railways, imports goods to supply the increased trade developed by them. Baltiore imports the staple goods for her inland trade, but fancy goods of which she requires a smaller

suburbs of Boston, and partially to Philadelphia, cheaper to import through New York; or which is have been used for a propelling power making an commercial cities of the seaboard.

build the Ogdensburg or Northern road.

That road stood ready to take its proportion of the Hudson, Mohawk, Black, Genesee, and even the als could not transact more cheaply than other western roads than the former, and thereby can in-Hence the increase of trade by the St. Lawrence. question above all parties and decide it upon its accuracy. merits: and New York city decided to cut her own mark, that in 1823 the importations to Philadelphia throat by blocking the enlargement. Well, it was her mineral regions, and one state work has by all right for her to be magnanimous. She could railway and canal combined, climbed the Alleghaafford it. Boston was thankful and showed her gra- nies and opened communication with the Ohio. titude by immediately placing herself in the course of the succeeding eight years upon the same ratio into two parts; the commerce of the western flowof duplication with New York. Since the census ing toward the Ohio and the lakes, and of the eastof 1850, Boston has opened her railway connections ern toward the seaboard. The former finds its deknown as the St. Lawrence Basin and Mississippi to Ogdensburg and Montreal, tapping the lake trade pot at Pittsburg and the latter at Philadelphia. But at both places; and she can carry flour cheaper the state east of the Alleghany ridge possesses enfrom the upper lakes by either of these routes to ough of mineral and agricultral wealth to consti-Boston, than it can be done by the New York can-tute Philadelphia the greatest manufacturing city als, time and insurance being considered. But, if in the world. She has iron and coal to her hand in the canals had been enlarged, the difference of cost untold quantities. She has also all the lumber re-

on three fold by the enlargement. Steam could tunate in mineral wealth. Philadelphia has ad-

still better, purchase in that market, of importers addition of at least one hundted per cent to the cain quantities and styles to suit. So, in some mea- pacity of every ton. Both of these would have resure, of Philadelphia, Charleston, Savannah, Mo-duced the cost of transportation on a barrel of flour bile and New Orleans. Thus we see that for some from Buffalo to New York to 25 cents. It is clear years New York has enjoyed almost a monopoly to see that no railway route could compete with of the foreign import trade. With the export trade, such a channel. The time required to make the however, it is not so much the case. This she has trip with a steam propulsion of say six miles the had to divide with all the above named ports, and hour, would be at most four days, whereas it now with Quebec and Montreal also. This brings us requires ten and a half. Boats of double the tonto the railway era-say 1850 and 1851. Let us see nage of the present class could navigate the enif we can discover what is to be the effect of this larged canal. However, it seems the fortunes of new mode of travel and transportation on the great men are of more account than the interest of the State. The question of enlargement is one of cost It cannot be said that a thorough system of rail- of transportation. It is argued by some that the ways had been constructed, penetrating the west by Erie canal can do all that is to be done—that its an organized combination of continuous lines so as tonnage increases year after year. Admit it: what to affect the trade and population of the cities of the then. If New York can, by enlarging her canals, seaboard at all till after 1840, and none of them do the present business for half the present cost, very perceptibly except Boston until after 1850, and obtain all the surplus, or rather increase as it Boston, unquestionably, led all other American cit- accrues, and do that cheaper than any or all the ies in railway enterprizes. Necessity, with her, other routes, is it not manifestly for the interest of was the mother of invention. She wanted an in-the State, as well as city, to do it? Be this as it terest in the trade of the west to supply cheap food may, the people of either city or state seem in no 1830, Philadelphia had exceeded New York in num- for her manufactories. She constructed railways particular hurry to secure that end. Since the bers. It had also done so for many years previous to every agricultural portion of New England. She census of 1850, New York has also opened the to 1790. The amount of the foreign commerce of had a line of sailing packets from Albany to bring New York and Erie route to Lake Erie; or at Philadelphia in those early days both before and her flour, provisions and grain. She wanted more least it has commenced actual operations since that after the Revolution, was greater than that of New speedy transit-more reliable receipts. She con-date. Two or three cross routes have also been York. She had by natural channels access to a structed the Western railroad, and thereby enjoyed opened from the Erie to the Central lines, and to Buffalo. The Hudson River and Harlem have class of English, more enterprising than the Dutch nected with the New York canals. What was been opened, together with northern and western the consequence? Why, she gained five years on roads, which, combined, give New York no less prosperity more rapidly than on New York till 1825, New York's period of duplication from 1840 to 1850 than ten different connections by railway with the when the completion of the Erie canal opened to and placed herself on the same average ratio of du-northern route. They are as follows: one at Dunthe latter city the immense forest country bordering plication with New York. This was the result of kirk, four at Buffalo, one at Niagara Falls, one at adding to water facilities the system of railways. Oswego, one at Watertown or Cape Vincent, one What was New York doing? Comparatively at Ogdensburgh, and one at Montreal. From these nothing. She had no finished railways except one points, traversing a portion of the distance separor two to Philadelphia. She demanded more speedy ate routes, they reach New York by only four termeans of communication with every portion of the mini. At the commencement of 1850, New York adjacent country. She had suffered the enlarge- had no continuous line of railway to the lakes, exment of the canal to be stopped in 1842, apparently cept via the New Haven and Housatonic lines, while Boston had enjoyed such a connection some four or five years. Now, New York has as many connections with the west as Boston, though the the surplus western trade which the New York can- latter holds more stock and influence in finished routes, The St. Lawreuce canals were also ready fluence some business, which might otherwise preto take the balance which could be taken neither fer a New York market. Both have now continuby the canals of New York or the Erie railroad ous lines to Cincinnati, Cleveland, and Sandusky, Ohio. Before the 1st of January, 1853, their con-It was thought better by New York politicians to nections will be formed with Chicago, and thence make the enlargement a political question, and on by two other lines with the great heart of Illinois. its appeal to the sectional prejudices of the people The effect of these connections, and others in rapid living at a distance from it, than to make it a progress, upon these cities, cannot be foretold with

Philadelphia has opened canals and railways to These mountains, however, seem to divide the state would have been more than one half in their favor. quired, and what produce she cannot raise, she can Their capacity would have been increased more easily procure from other states which are less for-

stone and ores possibly, of which this is true. Cars ment or handling be dumped in a city yard. They may be laden by machinery and unladen in a moment by dumping. As handling is the principal this is an important item. New York and Boston cannot avail themselves of this saving. They must use water carriage, unload their craft by handling, and cart to yards, or otherwise establish dock-yards, mines to the landing. This explains why the Readher rival eanals.

As we have before remarked, this principle applies to nothing else than those heavy substances which are quarried, and are handled in bulk instead of in packages; and besides which do not require transhipments if sent by railway, till arrival at destination.

We demonstrated last week to our own satisfaction, that for the transportation of bulky products, or merchandize over long distances, railways cannot compete with water carriage. It is only neces sary now, therefore, to state this general reason, why the products of the west can never go east by railway, while water routes exist. Besides. being a more expensive mode of transportation to start with, a continuous line of railway between the number of transhipments and cartages from one depot to another. It will be urged that they will width and allow their cars to run "through." We have never seen this tried with success, but we be- wealth; the latter only its representative. lieve in progress, and it may yet be accomplished. Heretofore, cars have become mixed up, or huddled together at one extreme end of the route, while and its connections with the country west of the at the other end they sometimes have no cars at mountains. It is eminently a manufacturing city, all, at others none of their own; and again, have and like all such when eligibly situated, it is grownever been able to recover their own property dur- ing rapidly. It will soon have a railway to the ing the whole season; so the whole thing ended in Ohio completed. Another railway connection with the breaking up of the entire arrangement. Nu. Lake Erie, via Sunbury and Erie is anticipated, by merous transhipments from car to car add greatly which Baltimore as well as Philadelphia is expectto the expense, and injure the order of the property, ed to profit. The important trade of Baltimore, In order to partake largely of the commerce of the however, has been with Maryland and Virginia west, therefore, Philadelphia must tunnel her mountains for a spacious canal. The grades of her rail- that she has been indebted for her rapid growthways are too heavy to admit of even a compara- she has supplied this section of country with mertively large freighting being done over the moun- chandize and manufactures in return for its tobactains upon them. We incline to the opinion that co and cotton. But Baltimore has a railway con-Philadelphia will soon turn her attention to the full nection with the mines of iron and coal in Penndevelopment of her iron interests, and cease striv-sylvania, and avails herself of it to the great beneing after a commerce between which and her, na- fit of her manufactures. Though she must continue ture has interposed so many barriers.

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foradfactory of the best quality of iron at the cheapest pose that her foreign trade will increase very raprates, when durability is considered, in this or any idly for reasons given heretofore. As a manufacother country, we believe Philadelphia has advan- turing city, however, she has the facilities for tages and facilities unsurpassed in the known ranking next to Philadelphia in works of iron. world. In the improvement of these advantages Upon the whole then we must conclude, that of and the full development of these resources, lies the four Atlantic cities, New York has the natural her truest and surest road to wealth. There is no endowments for becoming, and maintaining her other place in the explored world where water-pow-position, as the leviathan of foreign commerce. er, iron, coal and wood, are so intimately associ- That as a commercial city, Boston ranks next to ated with the finest agricultural regions as in Penn. her, Philadelphia third, and Baltimore fourth. In cost of transportation from the lakes to the sea-

vantages in regard to cheap fuel for manufacturing sylvania. We believe the mills now established purposes which her northern compeers can never in that State are capable of paying present rates have. For instance, coal is an article which can for labor, and then turn out a rail at prices, which be transported from Pennsylvanian mines to Phil- in the end will be found vastly cheaper than Engadelphia cheaper by railway than by water, and it lish rails at prices now asked in London. If this is the only article of heavy weight, except perhaps, be so, is it not the best thing Pennsylvania can do to oraganize iron companies? is it not the best may be laden at the mines, and without tranship- thing counties or towns in which mines are situated can do to lend their credit to such companies? and thus assist in the development of resources which contain their lasting wealth ? would not such expense put on coal as well as all other minerals; business be as legitimate as lending bonds and making subscriptions to railroad enterprizes. An immense effort should be made by Philadelphia and all Pennsylvania, in favor of their iron interests now, while prices are so high; so as to get which might be still more expensive. Besides this, them fairly before the public and have the merit of the coal must first be carted or carried from the their iron tested before prices recede again. Such an effort properly started and harmoniously susing railway can carry more tonnage of coal than tained and carried forward, could hardly fail of

New York, Boston, in short all the United States, are deeply interested in its success. England even now cannot supply our demands for iron, in addition to those of her other customers, and soon our vessels, houses, and nearly all our fences, must be made of iron. Pennsylvania has the means for furnishing that material cheaper than any other State, and to her first must they look to supply their wants. Other States may have plenty of iron ore, but they must have coal to smelt and work it, and this they can get no where else cheaper or of better quality than in Pennsylvania. In all these things Philadelphia as the great city of capital, most deeply interested, must take the lead. The influence and necessary action on the part of the State and west and east must necessarily be owned by several National Governments, for the encouragement of different companies, which will involve a great such projects, cannot be secured till she throws her whole weight into the scale. The saccessful management of her iron interests are of more value to have their depots together, their tracks of the same her than thousands of mints, for the mere stamping of coin. Labor bestowed on the former creates

Baltimore is very similar in its situation to Pailadelphia, both with regard to its outlet to the ocean east of the mountains. It has been to this trade for all time the great seaport town of Maryland and For becoming the most noted, and largest manu- Northern Virginia, it is hardly reasonable to sup-

manufactures, Philadelphia has the means at her command to make her the mistress of the world; Baltimore may ably second her; while New York and Boston will both always be large manufacturers, either within their limits or in the suburbs. In this respect, we might say .ow that nearly all the cities of New England are suburbs of Boston; built by her capital, and manufacturing for her market. Now the question arises: Will these cities make use of the means we find in their hands for these several destinies? Will New York play her cards so as to maintain her cemmercial supremacy, or will she throw up her hand just at the most critical juncture in her existence? Will Philadelphia devote herself to her mines, or continue to strive for something really of less value to her, and from which nature has, seemingly, purposely debarred her? These are questions full of moment for the cities themselves to answer.

New York has her most formidible rivals for the vast increase which is annually accruing in the trade of the west, in Montreal, Quebec, Portland and Boston. The local business of the southern lines of railway terminating at Philadelphia, Baltimore, Charleston and Savannah, will give them nearly all they can do without diverting the western trade.

The excellent system of Canadian canals, however, opening the sea to lake craft, so that they may load at Chicago and discharge at Liverpool, is another matter. A line of screw steamers will shortly be put on between northern Europe and Portland during the winter months, and Quebec or Montreal during the summer. The Portland and Montreal railway will be used as a connecting link between the Canadian cities and the seaboard in the winter. But suppose lake craft do not choose to go to sea, but tranship at Quebec, they have only one transhipment, and an advantage in distance as tollows: From Quebec to Liverpool via Cape Race is 2,863 miles, from Halifax to Liverpool via Cape Race is 2,466 miles, from Boston by same route it is 2,824 miles, and from New York it is 3,013 miles. With a line of good sea-going steamers from Quebec, and this difference in her favor in distance, how long will it take her to pick up from the annual increase of business which the New York canals cannot transact with as much facility and cheapness as it can be done by the St. Lawrence route on account of their limited dimensions, sufficient to sustain it triumphantly; and having obtained a foot-hold on the trade, to what extent might it not make reprisals. The St. Law-rence is a route of great capacity. The following shows the total movement of the St. Lawrence canals for a series of years:

1848 1849 1850. 213,153 288,103 Tons... 164,267

This only shows the property which passes the locks below Ogdensburgh, and is supposed to be a fair representation of the business going to Montreal and Cuebec from the lakes. Here is shown a percentage of increase never equalled by the New York canals in their palmiest days. Considering the many mites which all the various routes may be able to divert, unless some method is soon adopted to cheapen transportation on the New York canals, it would not be at all surprising to see New York increase in commerce less rapidly than for sometime past, while her less favored compeers by superior enterprise and energy, raise their ratio of increase to an equality with hers.

But if, by enlarging her canals, she reduces the

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## AMERICAN RAILROAD JOURNAL.

board fifty per cent, we shall see an entirely different state of things. Even the St. Lawrence route could not compete with her in such an event. The following statement will show the exports of a few of the principle articles of food to foreign ports from the first of January last till about the first of November prox., during the years 1851 and 1852:

	New	New York,	Philad	Philadelphia.	Baltimore.	nore.	Bos	Boston.	New Orleans.	rleans.
	1851.	1852.	1851.	1852.	1851, 1852, 1851, 1852.	1852.	1851. 1852. 1851.	1852.	1851.	1852.
Flour, bbls1,025,108 1,136,305 223,303 287,541 326,627 420,962 129,686 190,530 235,901 182,52	,025,108	1,136,305	223,303	287,541	326,627	420,962	129,686	190,530	235,901	182,524
Pork, bbls	39,027	34,846	5,097	4,748	5,097 4,748 22,527	6,117 12,723 12,542 14,617	12,723	12,542	14,617	6,861
Bacon, hhds	4,067	2,121	867	954	472	223	1,958 3,536 1,870	3,536	1,870	731
Lard, kegs 111,282	111,282	87,001	55,353	26,280	55,353 26,280 11,147 11,305 67,549 32,238 149,650 235,918	11,305	67,549	32,238	149,650	235,918
Cheese, boxes. 133,043	133,043	31,517	4,059	8,906	4,652	4,155	7,120	9,954		
nio de	AV.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	igi gli gre							3.

After all, it is not the foreign trade that creates M the wealth of our cities. We trade with foreign. M ers with our surplus, and procure luxuries and comforts in return, but for our sustenance we ex-change among each other the fruits of our labors. A manufacturing city is therefore far more independent of foreign powers than a commercial one.

Such are some of the statements of facts in relation to the situation, progress and facilities of our N Atlantic cities, and our views of their prospects N and destinies. The views are entirely our own, and the Journal is in no way responsible for them.

	o	h	ic	١.
s	a	ne	1	0

Cleveland, Columbus and C	incinnati Railroad
The receipts for October 1855	
Increase	
Sandusky and Mansfield Refor October 1852	

#### Lake Shore Road.

Increase ..... \$9,365 02

The track has been completed between Erie and Cleveland. Cincinnati is, therefore, now in complete railroad communication with New York. michmond, Fred. and Poto-

Table	of	Comp	ara	tive	Sp	eed	on	the	princi	p-
	1	Railro	ads	oft	he	Uni	ted	Sta	tes.	

al Railroads of the United		
(TRE SPEED BEING THAT OF THE SWIP	EST T	RAINS.)
LENGTH	TIME	Р. Н.
Albany and Buffalo route328	н. м. 10 15	MILES. 32 00
Androscoggin and Kennebec 82	3 30	23 43
Atlantic and St. Lawrence 122 Baltimore and Susquehanna 82	6 00	20 33
Baltimore and Susquehanna 82 Baltimore and Ohio282	4 30 13 45	18 22 20 51
Boston. Concord & Montreal. 71	2 50	25 00
Boston and Maine 74	3 00	24 66
Boston and Providence 43 Boston and Worcester 45	1 15	30 44 31 77
Burraio, Corning and N. Y 45	2 15	20 00
Buffalo and N. York City 60 Buffalo and State line 69	2 00 3 20	20 00
Camden and Amboy 62	3 20 2 15	20 72 20 65
Canandaigua aad Elmira 67	2 30	26 80
Central Georgia	9 15 3 30	27 55 16 86
Champlain and St. Lawrence. 47	2 30	18 80
Cheshire 64	2 30	25 60
Cin. Cleve. and Columbus135 Cin., Hamilton and Dayton 60	5 45 2 30	23 48 24 00
Cincinnati and Hillsboro' 60	3 35	16 74
Cleveland and Pittsburg 100	5 05	19 97
Columbia and Philadelphia 82 Concord	4 15	19 29 29 99
Connecticut River 50	2 00	25 00
Conn. and Passumpsic R 61	2 15	27 11
Dayton and Greenville 35 Eastern 54	2 00 2 30	17 50 21 60
East Tenn. and Georgia 82	4 00	20 50
Erie469	17 00	27 59
Fall River	1 25 1 40	29 66 30 12
Fitchburg and Worcester 26	1 00	26 00
Georgia	5 20 10 30	17 26
Greenville and Columbia 94	10 30 6 00	16 28 15 66
Harlem130	6 10	21 07
Housatonic110 Hudson River144	5 15 4 05	20 95
Hudson and Berkshire 34	1 40	35 59 20 36
Jeffersonville 51	4 00	12 75
Kennebec and Portland 60 Lackawana and Western 50	2 50 2 00	21 20 25 00
Little Miami 65	2 55	22 33
Long Island 95	4 30	21 11
Macon and Western101	3 40 5 15	17 46 19 24
Madison and Indianapolis 86	4 15	20 23
Mad River and L. Erie 158	9 30	16 63
Michigan Central278 Mich. South. and Nor. Ind 247	11 05 12 00	25 27 20 58
Milwaukee and Miss 43	2 00	21 50
Montgomery and West Point. 88	6 30	13 54
Morris and Essex 44 Nashville and Chattanooga 77	2 38 3 50	18 48 20 10
Naugatuck 62	2 55	21 26
New Albany and Salem 65 New Hampshire Central 26	3 30	18 56
New Haven and N. London 50	1 15 2 10	20 80 23 15
New Jersey 87	4 00	21 75
New Jersey Central 78 New York and N. Haven 76	4 00 3 00	19 50 25 33
N. Haven and Northampton 45	2 10	25 33 20 79
New Haven, Hartford and		
Springfield	1 55 3 00	32 34 22 00
Norfolk County 35	1 30	23 33
Northern New Hampshire 69 Norwich and Worcester 66	2 50	24 34
Norwich and Worcester 66 Northern (Ogdensburg)118	2 22 4 20	27 89 27 22
Ohio and Pennsylvania134	7 30	17 86
Old Colony 37	1 45	21 15
Peru and Indianapolis 22	1 45 1 45	20 00 12 59
Petersburg 64	3 30	18 28
Philadelphia and Reading 93	3 45	24 80
Phila. Wilmington and Balt 98 Portland, Saco and Ports-	4 00	24 50
mouth	2 15	22 26
Portsmouth and Concord 47 Providence and Worcester 43	2 00	23 50
Providence, Hart. and Fish-		23 46
kill 50	2 45	18 18

Rensellaer and Saratoga

mac 75	5 20	14 07
Richmond and Danville 65	3 30	18 57
Richmond and Petersburg 22	1 45	12 59
Roch., Lockport and Niagara		
Falls 76	2 37	29 05
Rutland and Burlington 120	4 15	28 02
Rutland and Washington 62	1 55	32 34
Sandusky, Mans. & Newark 117	6 30	18 00
Sangamon and Morgan 54	6 00	9 00
Saratoga and Schenectady 22	45	29 33
Saratoga and Washington 52	1 55	27 23
Schenectady and Troy 20	50	24 00
Seaboard and Roanoke 80	3 30	22 86
South Carolina137	5 30	24 72
South Western 50	4 00	12 50
Stonington 50	2 00	25 00
St. Lawrence and Atlantic 96	4 30	21 33
Sullivan 25	1 00	25 00
Terre Haute and Richmond 73	4 25	16 60
Vermont Central162	5 50	27 74
Vermont and Massachusetts 56	2 25	23 17
Vermont Valley 24	55	26 18
Virginia Central104	7 10	14 51
Vicksburg, Brand. and Jack-		
son 60	3 45	16 00
Washington Branch 38	1 40	22 72
Watertown and Rome 97	4 25	21 94
Western	7 30	26 66
Western Vermont 52	1 40	31 26
Western and Atlantic 140	10 00	14 00
Wilmington and Weldon162	10 30	15 42
Wilmington and Manchester. 44	2 45	16 00
Winchester and Potomac 32	2 00	16 00
Worcester and Nashua 45	1 52	24 06
NoteIn the compilation of th	e above	table,
1.1 .1 . 1 . 1		

NOTE.—In the compilation of the above table, the time set down is that spent by trains moving along the whole length of the road, and includes all the stoppages on the routes. The absolute running time would of course be less; but to give tables founded on such, would not exhibit the speed of through travel, which is that most interesting to the travelling public, and that which the compiler 66 the travelling public, and that which the compiler 07 of the table has intended should be done.

The above table is taken from the "American Railway Guide," a work favorably known and eagerly prized by travellers, and, next to a current bill, the only passport required for a comfortable journey by railroad in all directions through the United States. We have examined many ingenious contrivances designed to acquaint forgetful passengers of their whereabouts; but the best reminder we know of for this pufpose is the last edition of the Guide.

#### Iron Bridges.

We announced last week that the new iron bridge We announced last week that the new iron bridge
48 across the Nashua river, near the Jackson compa10 built by M. M. White, Esq., New York Iron Bridge
26 company—whose business (fice is at No. 39 Wall
27 street, Jauncey Court. The plan is that invented
28 and patented by Col. Long of the Topographical
28 Engineers. One of the bridges of Mr. White's con29 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridges of Mr. White's con20 the street of the bridge was the street of the street o struction received the prize medal at the World's Fair, where he had one on exhibition, fifty feet in length, adapted to railroad travel. The clear span of this bridge is 140 feet, and the entire length 150. The width is 19 feet clear of roadway, and a side-walk upon each side 6 feet wide. The entire weight of iron is about 40 tons, all of which is weight of iron is about 40 tons, all of which is wrought excepting the upper stringers, and the upright posts, upon which there is no strain, but only resistance of pressure. The braces, (which alone sustain the weight, and every one of which has been tested with the weight of 12 tons to the inch,) and the lower stringers are of wrought iron. Mathematically calculated, the bridge is capable of sustaining 100 tons equally distributed, or 50 tons in the centre. To guard against contraction and expansion by cold and heat, the bridge is set upon the masonry with a space of two or three inches at expansion by cold and heat, the bridge is set upon the masonry with a space of two or three inches at each end, to allow for expansion. Then the stringers at each end rest in four iron shoes, upon a piece of India rubber like that used for railroad car springs, half an inch thick. This, by its elasticity, allows the free play of the stringer, whatever may be the occasion, whether from ordinary travel, or expansion and contraction, without the possibility of springing out laterally, and so weakening

the structure. The whole work being of iron and acted upon uniformly, it is apparent that there can be no difficulty from this cause.

It whom it owed its existence entitled to some consideration?

But it seemed to be entirely overlooked, said the

Of the elegance of the bridge, we spoke briefly ist week. At an elevation of 22 feet above the bed of the river, its slight and graceful arch, with its light, gossamer-like appearance, compared with the bridges which we are in the habit of seeing,

resents a most pleasing effect.

With regard to the quality of these bridges, they have been fully tested elsewhere. Upon the Harlemrailroad, in New York, there is one which was built in 1847, over which there is a double track, and some 60 trains pass over it every day—some-times the weight upon one side and sometimes upon the other, and sometimes trains meet upon it and yet with this severe trial, it has never cost the corporation anything to keep it in repair, excepting to paint it. Another one built at Buffalo in 1849 of 160 feet span, has been equally successful.—
Many other bridges have been built since then, the experiments with which abundantly demontrate their ability to stand under everything that can be brought upon them in the legitimate way of business, whether for railroads or high roads. There is also a bridge upon the Nashua and Lowell railroad, at Middlesex village, which has been in use several years.—Nashua Telegraph.

#### Baltimore and Ohio Railroad.

In little over a month this work will be completed to the Ohio, and in anticipation of this event, the board of directors have adopted a rate of tolls to go in operation when the road is opened to Wheeling. A special meeting of the directors was held on the 13th inst, and the following remarks made by the President, Mr. Swann, on the occasion, were ordered by the board to be published .-The subject is one exciting much interest among the mercantile community of Baltimore, and the views of Mr. Swann will be regarded attentively by the railroad class in the other eastern cities.

Mr. Swann said that before the final vote was taken, he deemed it due to himself, as well as the committee with whom he had acted in the preparation of the important details upon which the board were called upon to vote, to submit one or two re-

The subject was one of the utmost gravity. It was not surprising to him that it should have excited a deep interest in this community. Comm-u nications had appeared in the daily papers of this city, under anonymous signatures, well calculated to mislead those who had no means of knowing the facts and policy on which the committee had acted in the graduation of the toll sheet which had been submitted. He had been pained to find that

in one of these a most ungenerous attack of a personal character had been made upon one of the members of this board.

ted. If a desire prevailed in any quarter to infin-ence the action of this board, the node which had been resorted to, it seemed to him, was the least

likely to accomplish the object.

All this, the President said, he sincerely regret

If there were those who desired to modify the existing rates of the tariff, by the submission of facts not in the possession of the company, why not make their appeals directly to this board? Was it necessary to go into the papers for the purpose of exciting prejudice and inflaming the public mind?

President, that this was a new road, just about to be opened to the public. It had been pressed forward with a rapidity that must in the nature of things, subject it to many drawbacks for some time to come Six weeks might elapse after its opening before they could dispense with the heavy grade at the Pettibone tunnel. Did gentlemen know the expense of working a road in such a condition?

Would it not be the height of imprudence, with these facts staring them in the face, for the board to put down their tolls to a limit which might entail upon them in the very outset the most serious consequences? Admitting that the road, when in a proper condition for business, could work at onehalf the rates which have been recommended, would gentlemen take the responsibility of incurring the risk of such an experiment? For himself he had been surprised to sec gentlemen taking up this tariff as a mere abstract question, without any reference whatever to the condition of the road.

The President said that the committee had been laboriously engaged, for some time past, in making up the details of this important tariff. He was willing to take his full share of the responsibility. He believed it to be for the present a good tariff; and if official documents were to be relied upon, it placed the city of Baltimore upon a better footing than any other city on the seaboard. The commitsee had no object in view but the protection of all the great interests entrusted to their charge, and he should be degrading the honorable gentlemen who composed it, if he undertook to defend them against charges or insinuations of personal bias in the dis-charge of their responsible duties.

The President said that the committee understood the interest of the city of Baltimore as well as the road. They had not acted without due consideration, and a minute comparison of the rates charged upon other roads which were likely hereafter come into direct competition with their own for

he trade of the West.

They had carefully examined the toll sheet of the New York and Erie, and Central Pennsylvania roads; and they had freely conferred with those in whose judgment they were authorized to repose confidence, in graduating the various classes and rates of toll, which would be found inserted in the toll sheet submitted to the board.

The President said that he had been entirely a-ware that in the discharge of the duty assigned them, they would encounter the opposition of some who in their eagerness to force down rates, might overlook the fact that they were not at liberty, apart from the condition of the road, wholly to disregard their obligations to the State, the city and the stock-holders, to whose generous aid the road was indebted for its existence and its ability to be useful here-

The President said that whatever modifications might take place in the rates recommended by the committee, and he was ready to act whenever the experience and condition of the road would justify it, he was not one of those who would be the first to invite a deadly competition with rival-works, by the adoption of mere nominal rates on this road. He thought that the great trunk lines connecting with the West would commit a cardinal error if they adopted any such policy with a view to an exclusive monopoly at any one point. New York, Philadelphia, and Baltimore had all their local ad-vantages. A deadly warfare of this sort could be vantages. A deadly warrare of this sort could be attended with no other result than injury to these great lines. He sincerely believed that there was

as soon as the condition of the road would justafy it. He would be sorry to see any portion of the trade of the west, which we might reasonably expect to control going to any other city. Taking Cincinnati as the starting point, the through rates which could be made with this road, upon the basis of the present tariff, would be lower than those of any oth-

In making this assertion, the president said he was justified by the official data on which the com-

mittee had acted.

If in some of the exhibits made to the public, it was urged that by certain combinations, with can-als, lakes, etc. etc., the rates charged showed an oc-casional advantage over those which had been recommended, it would be borne in mind that this road was not making a toll-sheet to compete directly with lines dissimilar in character; but with the roads which were parallel to, or immediately in contact with them, and whose greater despatch and convenience had heretofore enabled them to exercise a controlling influence.

In the adoption of the toll sheet submitted to the board, the committee had been compelled to move with caution, from what they knew to be the contingencies incident to all new roads. In many of its leading features the present tariff must be, to a

considerable extent, an experimental tariff.

The working of the high grades west of Cumberland, the president said, is yet to be tested; and the general rates upon a new road for a few months after its opening, might be less advantageous than experience would justify the board in assuming at a latter period. To have prepared a tariff for this road, at the present time, without reference to these considerations, would have been unwise, and it might be highly prejudicial to the interests of the work.

The president said, in conclusion, that it was the intention and would be the duty of the board to make the facilities of the Baltimore and Ohio railroad such, in connection with her natural position, as to give the city of Baltimore an advantage over any other market. The committee claim to have done this in the tariff which they have recommended for their unfinished road; but if experience should prove hereafter that this was not the case, and that it would be necessary to make this advantage still more marked than it now is, this board, he was satisfied, would not be slow to unite in any line of policy which might be reasonably expected on the part of the mercantile community, provided they could do so, without violating their obligations to the great interests entrusted to their charge. was the last man in this community to see any trade passing away from the city of Baltimore which the road had the power to control. He knew the facilities which this board would be able to offer, and it should never be said, so far as his influence extended, that the interests of the city of Baltimore had suffered in his hands. He trusted that he was sufficiently awake to promise this.

New Jersey.

Camden and Cape May Raitroad.—The projected railroad from Camden to Cape May, N. J., is likely to become a reality. A meeting was held on Monday in Camden, for the purpose of consid-ering the subject, and much interest was taken in the proceedings by all present. The attendance was quite large, and the greatest unanimity prevailed. After the meeting was organised, an able report on the construction and cost of the proposed road was read and ordered to be printed. This reroad was read and ordered to be printed. This re-port, made by Gen. William Cook, Engineer, sets mind?

The President said that he valued the good sense and intelligence of the mercantile classes of the city of Baltimore too highly to believe that they would countenance any such attempt to take the management of this road out of the hands of those whom it had been entrusted. Suppose the board should decide to refer the whole subject of the tariff to those who are now finding fault with the report to those who are now finding fault with the report of the committee, could they hope to satisfy all?—Some had claimed that the rates upon third class articles should be reduced as low as 20 cents. Not a few had assumed that the existing rate on coal should be taken as the prevailing standard. What sort of a toll sheet would this board be able to adopt? What would become of the millions of stock represented in this road? Were not the great interests energy of those who take such an active part in the undertaking, there is every prospect of the road being begun at an early day.—Philadelphia Com-

## American Railroad Journal

Saturday, November 27, 1852.

Fencing Railways.

It hardly seems that it should be necessary to compel corporations to fence in such valuable property as a good railway. Perhaps there is no sort of property more liable to damage, from exposure, damage always entailing heavy pecuniary lossesand yet, in this and Western States it is almost as rare to see a railway track enclosed by a good substantial fence, excluding both men and animals, as it is to find any body to blame when an accident occurs. How many engines is it necessary to ruin-how many cars to smash, engineers, firemen, brakemen and passengers to kill; or maim and pay for, to run up losses which, had the money been expended in that manner, would have furnished an elegant and durable enclosure. We think the statistics will show that more than threefourths of the accidents resulting from trains running off the track; or from collisions are occasioned, either directly or indirectly, by obstructions getting upon the track which would be kept off by a fence. If this is so, it is clearly the dictate of railways. A train is usually impedded by some obstruction on the track, and thrown behind its time before a collision occurs. A good fence, therefore, and consistent watch, would do much to save life and property. And, if an eye to their own interests will not urge corporations into this step, why not get a legislative enactment to accomplish the object. Taking this policy would place railway companies on the defensive. If cattle got through the enclosure and caused damage, their owner would be liable to the company. If men got on the track and became disabled or killed, they could not be made to pay annuities or damages .-On the whole, is it not only practicable, but a highly proper policy?

Railway Car Trimmings.

America is deservedly noted for the magnificence and luxury of her travelling conveniences. The saloons of her steamers, the drawing rooms of her hotels, and the interior of her railway cars, are the subject of the highest commendation by travellers from all parts of the world. Other countries may boast of more magnificent private residences, which are furnished in a more luxurious and attractive style; but when the comfort of the traveller is concerned, the Americans exceed all others in the gratification of every reasonable wish-and it pays too. Americans, and strangers in America, will travel by the best conveyance, the most popular, the most magnificent, the most expensive, the most comforable.

DOREMUS & NIXON, No. 21 Park Place, as will be seen by their advertisement, are offering a style of head linings for cars, of a variety of patterns, unsurpassed in beauty and durability by any in the market. Also, Paris Cotton Felt, for stuffing cushions, which is said to be superior to hair, and free from vermin, while it does not cost as much by one-half. These are patented articles, and D. & N. are sole agents. Car makers and omnibus builders are invited to examine their stock before purchising elsewhere,

South Carolina.

Northeastern Railroad .- The reports of the president and chief engineer of this road to the board of directors, shows the necessity of its construction to the commercial importance of Charleston, and the developement of the northeastern section of South Carolina.

The report of the president, D. L. McKay, presents the following details of the road and its objects. The line surveyed, commences at the South Carolina railroad, near Charleston, thence running by the straightest course to a point on the Santee canal, crossing the Santee river near Maltessee lake, passing within a mile of Kingstree in Williamsburgh district, and thence by a straight line to the terminus on the Wilmington and Manchester railroad, two miles east of James' Station on the land granted to the company. The length of the road is 103 miles, and the estimated cost, including depots and equipments ready for operation \$1,240,337.

The importance of the Northeastern railroad to Charleston, demands prompt action. At every point she is threatened with diversion of her trade and travel, which, unless counteracted by this, the only means within her power, must prove disastrous in the extreme. The Wilmington and Manchester road will soon be completed, when the boat line to Wilmington will discontinued. The Metropolitan mail will then be transferred to the Wilmington and Manchester road, pass from Wilmington, via Branchville to Augusta; leaving Charleston out of the great national mail route, and carrying with it the valuable and inseparable attendant—the travel. good policy, in a pecuniary view, to tence in the From that moment Charleston ceases to be the thoroughfare between the north and south, and becomes a mere way-mail station. It may not be amiss here to refer to the road from Pensacola to Brunswick, in Georgia—a work which has suddenly risen to our view, and is destined to control the whole southern seaboard travel, the course of which being through Savannah, will pass thence, by the rail-road to Augusta, (now nearly completed) where the traveller will meet the continuous line of railroad, via Branchville to Wilmington—leaving Charles-ton entirely out of his route. But I proceed to considerations of a more direct and immediate concern. The Cheraw and Darlington road which is designed to connect Cheraw and its tributaries in North and South Carolina with the seaboard, will very soon be commenced, having its terminus at the Dar-lington depot, on the Wilmington and Manchester road—the distance from which to Wilmington is 110 miles, with grades of fifteen feet and less to the mile. While from the same point to Charleston, via the Camden, Columbia and Hamburg road, is 165 miles, with some grades as high as 30 feet. It follows then, obviously, that the trade of the Pee Dee section of the state must be lost to Charleston; for it could not bear the charges and delays of this circuitous transportation. That 40,000 bales of cotton, at least, and every thing else that the country may produce, will go to Wilmington, while, for the same reason, the comparative cheapness of transportation, Wilmington will furnish all their supportation. To the argument that the bar off the Cape Fear is an insuperable obstacle to the advancement of Wilmington, and that she never can interfere with the trade of Charleston, we reply-that altho' large vessels cannot enter the river, the passage is perfectly safe, as is well known, for vessels of suf-ficient burthen to make her a formidable rival in many branches of commerce.

The value of the real and personal estate inter-

ested in its construction, is estimated at 90 millions

The aggregate population at 210,400 and both

increasing rapidly,

The number of bales of cotton produced, is 78,000.

The number of barrels of naval stores may fairly be estimated at 100,000.

The following is the estimate of income:

The average number					
South Carolina railroad	 	 			 370
Georgia road	 	 	 		 304
Central Road, Ga					
Raleigh and Wilmingto					

ı	We therefore conclude that we shall have 100 daily, at an average of \$2 each, equal to \$73,000
ı	Sixty thousand bales of cotton at \$1 60.000
Ì	Naval stores 20,000
1	Up freights 50,000
	Up freights
	Total gross receipts
	Deduct current expenses, rated at 47 per cent 100,000

The benefits of the road to the section of country aversed by the Cheraw and Darlington road will, it is stated in the report, depend much on the two roads terminating at the same point on the Wilmington and Manchester, thus securing a choice of markets without an additional charge for freight, or the trouble and expense of unlading and relading.

We learn the following details from the report of the chief engineer, T. Pinckney Huger Esq.

0 ,	4.
Average grubbing, grading, trestling an	d cross-
ties per mile, \$2535-103 miles\$	261,104
Crossing Santee river and swamp.	130 000
103 miles of iron and chairs	473,182
Laying down rails	36 050
Twelve wood and water stations	18,000
Station at upper terminus	4,000
Outfit, including 8 locomotives, 8 passen-	-,
ger, 8 mail and baggage, 50 platform	
cars for cotton, and 50 box cars for dry	
goods, etc	138,000
Depot in Charleston	150,000
Engineering and colories	
Engineering and salaries	30,000

\$1.240.337

\$113,000

Average cost per mile \$12,042.

The chief engineer strongly insists, as an indispensable element in the stability and endurance of the rails, that their quality should be unexceptionable. The following remarks are to the point.

The generality of iron used on our roads, is of a or of what pattern your rail may be, if the iron is of bad quality, the expense of repairs to road and machinery will be correspondingly great. The English iron as ordinarily imported by our merchants in fragmently your inferior, and it is impossible to the content of the content of the impossible to the content of the content of the impossible to the content of the con chants, is frequently very inferior; and it is impossible to detect its inferiority by its appearance; but on being used its defects are seen. In giving orders for iron, especial particularity in regard to quality is necessary. I have heard great complaints made against the English iron, and that of American manufacture preferred.

#### Illinois.

Chicago and Rock Island Railroad .- The Chicago and Rock Island railroad is completed from Chicago to Joliet, and commenced operations on the 18th. At Joliet the cars connect with the morning and evening line of packets to La Salle and Peru, also with various lines of stages to Dixon, Peoria, Rock Island, etc., etc., and with the river boats at St. Louis. By the 1st of January the road will be open to La Salle, the head of navigation on the Illinois river, and to Rock Island by the first of July. Should this be accomplished, it will be one of the greatest achievements in railroad construction on record-180 miles in 18 months! Mr. Addison B. Gilmore, the former efficient agent of the New Haven road, and who was connected with it from the commencement, is now the superintendent of the Chicago road.

Peoria and Oquawka Railroad.-This road is progressing favorably. Some hundred hands are employed on the eastern and western divisions. A contract has been made for a large amount of railroad iron at low prices, and the president, Judge Mason, of Burlington, Iowa, expects to have the road in running order from opposite Burlington to 7 Galesburg, where it will intersect the Military Tract Central road sometime during 1853. About twenty-five miles of the eastern end of the Peoria and Oquawka road will be completed next year.

#### Illinois.

Naples and Decatur Railroad .- The Morgan (Ill.) Journal states that in seven months of the last year, during which almost the entire business of this road for the year was done, the net profits were \$29,-000, It is stated that the Illinois Central railroad company have bought this road with its privileges, and intend this fall to replace the flat with the T rail, a large amount of which is now on its way from Chicago.

#### Chicago Dry Dock.

The dry dock of the city of Chicago is just completed. It was commenced in July last and was built under the supervision of Francis Jordan, Esq., at a cost of \$25,000. It is 306 feet in length, fiftysix feet wide at the top, and 37 at the bottom. It can be filled in two hours and three quarters, and emptied in three quarters of an hour. The size is sufficiently large to accommodate the largest class propellers and sailing vessels. The water on the have been supplied more liberally. blocks stands at about eight and a half fee'.

#### New Iron Project.

It is stated that Shoenberger, the oldest iron maker in Pennsylvania, Rhey, Matthews, and Co., of Pittsburg, and a number of enterprising capitalists in New York, Boston, and Philadelphia, are organizing a company, with \$1,000,000 capital, to embark very extensively in the manufacture of iron rails at Johnstown, Cambria county, Pa.

#### Maryland.

Mount Savage Railroad .- The Mt. Savage Iron tendency of such accessions is to farther speculation. company have an efficient force engaged in making the necessary excavations and embankments for laying alongside of their present railroad another track, from Cumberland to the western end of the "Narrows," where this railroad is intersected by that of the Cumberland Coal and Iron Co.

#### Kentucky.

Louisville and Covington Railroad .-- The board have unanimously elected P. S. Bush, Esq., of Covington, a director, to fill a vacancy, and Isham Henderson was at the same time elected president for the ensuing year. The board stand pledged thoroughly to survey all routes between the termini by disinterested engineers, and to publish the plans, profiles, and reports for general distribution.

#### Mississippi.

Mississippi Central Railroad.-Holmes county, Mississippi, by an almost unanimous vote has approved of a subscription of \$200,000 to this import-

Not less than one and a half million of dollars has already been subscribed, and assurances, of a reliable character given, that half a million more will soon be realized.

#### Missouri

St. Louis and Iron Mountain Railroad .- There was a meeting of the corporators of this road on the 4th inst. at St. Louis. Books are to be opened for subscription on the 22nd inst. The Intelligencer says:-The charter of this road is a valuable one. It not only extends to the building of a road to the Iron Mountain, but the privilege is given to extend to any point in the south or south-western portions of the state. Thus it may be extended to Cape Girardeau, or to the borders of Arkansas on the south-west. The charter is a liberal one, and we look upon the franchise as very valuable.

#### Kentucky.

Lexington and Frankfort Railroad .- The earnings of the Lexington and Frankfort railroad for the six months ending Oct. 31st, were \$40,276 74, an increase of about 11 per cent over the corresponding period in 1851.

#### Michigan.

Detroit, Monroe, and Toledo Railroad .- Parties are now engaged in the location of this road, preparatory to the commencement of the work as soon as possible after the meeting of the Legislature of Michigan, and the passage of a law under which the road can be built.

#### Stock and Money Market.

Money continuss in great abundance, and speculation in stocks has reached a high pitch. Our tables show a large advance upon the prices of last weck. The speculative feeling which exists, though to be regretted, indicates plethora in the money market, favorable to our railroad projects, that are seeking to borrow money. There never was a time in which the wants of our companies

The principal public sale during the week has been of the bonds of the city of Rochester, issued to the Genesee Valley railroad. The amount offered was \$100,000, for which there were bids to the amount of \$455,000, averaging from 100 to 104 .-The loan was taken at a range of 102 16-100 to 1044.

Several new Banks have been started within the last few days, giving a slight addition to our banking capital. Though we may have none too much capital for the proper transaction of business, the

## Railway Share & Stock List:

CORRECTED WEEKLY FOR THE

## AMERICAN RAILROAD JOURNAL.

NEW YORK, NOVEMBER 27, 1852.

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New York 5's, 1890	100
Fire loan 5's, 1886	100
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#### RAILROAD STOCKS. [CORRECTED FOR WEDNESDAY OF EACH WEEK.]

CORRECTED FOR WEDNESDAY OF MAC	
Nov. 25.	Nov. 18.
Albany and Schenectady 1141	112
Boston and Maine 1074	107‡
Boston and Lowell109	109
Boston and Worcester 105	105
Boston and Providence 894	897
Baltimore and Ohio 931	911
Baltimore and Susquehama 301	30
Cleveland and Columbus 127	1274
Columbus and Xenia	-
Camden and Amboy	
Delaware and Hudson (canal) 128	130
Eastern 981	98
Erie 95	91
Fall River	_
Fitchburgh	1034
Georgia	C 100 -10
Georgia Central	
Harlem	731
" preferred	1111
Hartford and New Haven	129
Housatonic (preferred) 35	35
Hudson River	761
Long Island	40
Long Island 46	40
Madison and Indianancia	99
Madison and Indianapolis 108‡ Michigan Central	1101
Michigan Southern 133	1111
New York and New Haven115	115
New Jersey	130
Nashua and Lowell	100
New Bedford and Taunton	117
Norwich and Worcester 53	524
Ogdensburgh 271	261
Pennsylvania48	464
Pennsylvania	37
Peterspurg	-
Richmond and Fredericksburg. 105	974
Richmond and Petersburg 35	35
Reading 100	
Rochester and Syracuse 1261	1241
Stonington 571	56
South Carolina	1224
Syracuse and Utica133	133
Taunton Branch	115
Utica and Schenectady 1431	142
Vermont Central 171	17
Vermont and Massachusetts 191	221
Virginia Central	40
Western 1051	1044
Wilmington and Raleigh 571	571
The second secon	

#### Railroad Lanterns.

Our readers will find an advertisement of every variety of railroad Lanterns in another page

Texas

Houston and Austin Railroad .- The people of Texas seem awake to the importance of developing by the only practicable means, that of internal improvements, the vast and fertile domain, they possess. An association has been formed having for its object the construction of a road from the city of Houston to that of Austin. The first step they propose, is to urge the completion of a line from Houston to the Brazos river. The association appointed a committee for the purpose of examining into the route and what means can be obtained for the accomplishment of the work. The report presented by the committee is sufficiently encouraging. The cost of construction is shown to be extremely light. The entire distance from Houston to the Brazos is 53 miles, this distance according to the report is almost graded by the hand of Nature.

For the first 27 miles the prairie is nearly a perfect level, the differences in general altitude not averaging twelve inches to the mile and so general as to be entirely imperceptible to the eye. In the next 16 miles, it is estimated that the ascending grade, which is also gradual, will average a little over three feet to the mile, and in the remaining 10 miles, the descending grade is the same. The highest point of elevation, near the property of Mrs. Stevenson, is about 50 feet above the lower prairie, attained by a gradual ascent for 16 miles, from which the road again gradually descends about 30 feet to the level of the banks of the Brazos, at the rate before stated, of about three feet to the mile.

The cost of grading and preparing the road bed to receive the superstructure will not exceed \$6000 per mile, or \$30,800 for the whole road. The bridges and culverts must be constructed of wood until the road is completed, and stone can be transported thereon.

The cost of these is estimated as follows: Bridge across Big Cypress \$5,000; bridge across Little Cypress \$2,000; across Willow creek \$3,000; temporary bridges across the ravines \$5,000. cost of cross-ties, chairs, spikes, etc., \$113,473, or \$2,141 per mile.

The following is the gross estimate: Earth work..... \$30,800 Bridges and Culverts..... 

Cros-ties, chairs, spikes and laying of 113 479 track..... Depots......
3 Locomotives and tenders...... 15.0003 Passenger cars..... 6.000 6 000 20 freight 10 Cattle Machine shop and machinery..... 10,000 Engineering and agencies..... 10.000

Total.....\$464,053

15.000

It must be remarked that in the above estimate, the rails are estimated at a cost of \$40 per ton, the cost of that item must be increased so as to meet the present prices of that article. The estimated cost of the New Orleans and Opelousas road is \$10,000 per mile, and the report states that the Texas route is far better adapted to the construction of roads than the Opelousas. The Texas road passes over no lagoon, river, lake nor swamp, and ever no creeks or ravines of consequence.

The business operations of the road at the time of its probable completion, about the 1st of January, 1854, are approximately stated from the following data. The cotton received at Houston of last years crop, which was fully one third short, was years crop, which was fully one third short, was accumulate for the redemption of the principal and 93,000 bales, an average crop would have reached further authorize the railroad company to negoti-

passed over the whole length of the road, while an amount of 16,500 bales which went down the rivers Brazos and Colorado, and to Port Lavaca by wagons, must be added, making an aggregate of nearly 33,000 bales. It is supposed that half the cotton shipped from the Gulf ports of Texas is tributary to this road, and the estimated shipment for the coming year is set down at 125,000 bales. Taking 50,000 bales to be transported at \$1 per bale it would yield \$50,000, being from 100 to 200 per cent lower than the present prices of transportation.

The amount of merchandize paying wharfage at Houson last year ending 1st July last, was 150,000 barrels, allowing the articles free of wharfage to equal the consumption of the city, this would amount to 10,000 wagon loads averaging \$40 per load, or \$400,000 paid for outward freight from the city. The revenue of the road if built, from this source, is estimated for last year, at \$66,000, and at the ratio of increase as exhibited by the wharfmasters returns, would be for the year 1854 \$130,000. The commttee have set it down at \$100,000.

The pine lumber used in Washington and Austin counties, for building, is now hauled at an expense of from \$15 to \$30 per thousand. It is estimated that the demand in 1854 in the neighborhood of the Brazos at the upper terminus of the road wiil reach 7 million of feet. This at \$5 per thousand would yield \$35,000.

The transportation of corn, oats, potatoes, hides and other agricultural products of the upper coun ties is set down at \$10,000. The way freights on merchandize, cotton and other articles is estimated at \$50,000.

The present travel of passengers, exclusive of emigrants, is believed to reach 5,000 each way per annum, with an increase yearly of 25 per cent .-The committee assume that the present number will be quadrupled by the increased facilities and cheapness of travel consequent on the opening of the road. 20,000 passengers each way at \$1 would be \$20,000.

The European emigration to the State is estimated at 10,000 yearly—the receipts from this source is estimated at \$10,000 for freight and passage .-The American emigration would not fall short of 20,000, which, at \$1,50 each way is \$30,000. The receipts for way passengers is estimated at \$10,000. The mail service it is supposed will yield \$15,000 per annum. The total gross revenue from all these sources amount to \$320,000 per annum. The committee propose the following plan for obtaining the required capital:

"They believe that three hundred thousand dollars can be raised by subscription in Houston and parts of the country interested, payable in instal-ments, within 12 months after the 1st of January next. But suppose individual subscriptions should not exceed two hundred thousand dollars, they propose that the city of Houston subscribe to 200,000 dollars of the stock, and issue her bonds for the amount, payable in 15 years, with interest at the rate of 6 per cent. per annum, payable semi-annually at the city of New York. That the City Council provide in advance for the payment of the interest and the final redemption of the principal, thus:—pledge \$12,000 per annum of the whartage revenue, (now exceeding that sum, and annually absorbed in the construction and repair of the city's turnpike, on the route of the proposed railroad, and which will cease when this work is commenced,) to be set apart and remitted on 1st January, and 1st July, to meet the interest; let it also provide that the divi-dends on the stock be annually invested as a sinking fund in good State or Government stocks, and

an additional security for the redemption of the principal and interest as aforesaid. With such a basis these bonds would be negotiable in New York, or any other market where money is abundant.

#### Oblo.

Scioto and Hocking Valley Railroad .- The completion of this road has now become a fixed fact. From Portsmouth, on the Ohio river, to Jackson, the track is prepared for the rails, and the cars are already running about one-third of the way. In a few days more it will reach a point where it will accommodate several iron furnaces, and carry down their product and bring up their supplies. When completed to Oak Hill, about 36 miles from Portsmouth, its tonnage will probably be-

Pig Iron, 10,000 tons, at \$1 75......\$17,500 Merchandise, and supplies for furnaces, 2500 tons, at \$1 75. 3,750 Coal; 40,000 tons, at 80c. 32,000 Other articles of every kind ..... Passengers and mail.....

When completed to Jackson, of course these earnings will be materially increased. The distance from Portsmouth to Jackson is 45 miles.

From Jackson to Newark the distance will not materially vary from 90 miles. The whole country from Oak Hill to Newark, in point of fertility, is above the average in the State of Ohio. Though sparsely settled as yet, it is capable of sustaining a very dense population, and offers more inducements to the enterprising capitalist than any other part of the west.

In addition to a productive soil and healthy climate, its mineral resources are incalculable. For iron ore and bituminous coal, it will compare with the most favored country on the globe. Several of these coal beds are found to be 15 to 30 feet in thickness. The beds of ore from 8 inches to 7 feet in thickness. The line of road traverses the axis of this great mineral region, nearly 100 miles.

As to quality, I believe there is no better bituminous coal in the world than is to be found on the line of this road. In every large vein there is a portion entirely free from sulphur, with little bitumen, that burns freely and leaves but a small residuum, in a fine ash. This, it is supposed by those having experience, will answer in its raw state for smelting iron.

Large quantities of Cannel coal are found on this line, perfectly pure, which has been used for smelting iron, mixed with charcoal, with success.

To smelt with coal requires turnaces properly constructed, and when the structure is adapted to the use, the number of furnaces will be increased vastly. Probably 100 furnaces will be operated along or near the line of this road, producing 200,-000 tons of pig iron annually.

Of course in a country so extensive, the quality of the ores differ in richness and kind of product; but a fair average of calcined ore, ready for the furnace, is not far from 60 per cent.

As to quantity, it may be said to be exhaustless. In 1837, Prot. Briggs, of the Geological corps, under authority of the State, examined this country, and in his report to the General Assembly of 1837, and 1838, (p. 93,) he says: "At a very low calculation of the amount of good iron ore in the region which has this season been explored, it is equal to a solid unbroken stratum, 60 miles in length, 6 miles in width, and 3 teet in thickness. A square mile of this layer being equivalent in round numbers to 3,000,000 cubic yards-when smelted will 39,666, of which one half or 16,333 would have ate the bonds and pledge them to the purchasers as yield as many tone of pig iron. This number mul-

tiplied by the number of miles contained in the stratum, will give 1,080,000,000 tons, which from these counties alone, will yield annually for 2,700 years, 400,000 tons of iron, equal to the greatest amount made in England previous to the year 1829.

From this estimate, which it is believed is much too low, it appears that the iron ores of this portion of the State are sufficient to supply, not only all demestic demands for ages, but to form an important article of commerce with other States."

In 1838, when this country was examined by Prof. Briggs, a large portion of it was an unbroken wilderness. Now, thorough and more recent examinations of the country have not only confirmed the facts stated by him, but extended the iron redeveloped veins or beds which to him were unknown.

The first iron furnace established in that region, was in 1826. Since when, in Ohio, Kentucky and Virginia, within 40 miles of the southern terminus of this road, nearly 60 furnaces have been erected, and are in operation.

The agricultural resources of Jackson, Hocking, Vinton and Perry counties, are of no mean char acter. Vinton is well adapted to grazing, and large herds of cattle are annually driven from this county. Wheat, corn and hay are abundant here, but remote as it is from any commercial facilities, they have no market to encourage these productions beyond the demand for home consumption.

This road is an extension of the Sandusky City and Newark railroad; and when the chain is complete, will be one of the most important commercial thoroughfares in the Union. North of Newark there is no mineral coal; and as the forests are rapidly disappearing, this fuel must come in to supply the demand of nearly one million of people. The south will probably require 250,000 tons of this coal, to used at Portsmouth, and along the course of the Ohio river, and even down to New Orleans. An equal quantity will be required to the north and northwest, for the supply of the country intermediate from the coal region, to the lakes, and for port of Huron, one of the lake termini of the Mansfield and Sandusky railroad, has remarkable facilities for transhipping coals and freights to vessels and boats navigating Lake Erie.

produced along the line of this road will be immense. If the price of iron continues remunerative, within five years the quantity will probably approximate 100,000 tons. Add to this the agricultural products from the country south of Newin America.

The passenger receipts will be no small element of its earnings. So large a traffic will bring a great number of persons with their property over the road; and a country so abundant in resources drawn hither, who will transact their business along the line.

At Portsmouth the road connects with the Maysville and Big Sandy railroad, which will introduce it to the great system of southern railways leading to the Gulf of Mexico and to the southeastern Atlantic cities. The distance from New Orleans, by this line, to Lake Erie, will be shortened more than one hundred miles over any other line in contemplation. All this great chain of southern railways is now in progress. Some of the links are nearly ing stops. If no negligence on the part of the de- | The farmers on the line, almost to a man, have

completed, others under contract, and I believe fendants should be discovered, he directed a verevery one is located and the means provided for dict to be entered for defendants. construction, from Portsmouth to Mobile, New Orleans, Savannah, Charleston and Norfolk.

Such are the prospects of the Scioto and Hocking Valley railroad, and such the country it pro- closely dependent upon the circumstances of each poses to occupy.

Newark, Ohio, November 18, 1852.

#### Journal of Railroad Law.

THE TIME TABLE

It has recently been decided in England, by the York and North Midland Railway Co., that if a for damages cannot be sustained against the comrailway company, through negligence, fail to pany. The plaintiff was driving at a rapid rate comply with the undertakings of their time table, gion far beyond the limits mentioned by him, and they become liable to passengers for such damages near the point of intersection a high embankment as they may have incurred in consequence of their between the railroad and highway rendered it imbeing delayed in reaching their points of destina-

> A like decision has also recently been rendered in Scotland.

What would be the decision in case a railway company should fail to fulfil their undertaking, not collision. from negligence, but from the impossibility of so dothe train of another company sooner than any engine could enable them to do. In such a case, a do what they can do.

The charge of the judge in the case first above from the jury and to non suit the plaintiff. mentioned, is in substance as follows:

"This is a complaint entered by Mr. Raikes to recover such damages as you may say he has sustained in consequence of the breach by the defending? As, for example, if they should promise to meet ants of a contract in which they engaged, as he says to take him from Hull to London; and I am deposited upon his private dock, which was in his of opinion such a contract was entered into; for I exclusive use for the purpose of receiving goods to don't think that their liability ends at Milford. It be transported by him, it was held in the above is impossible to know what arrangements different mentioned case that such delivery was a good derailway companies may have entered into between livery to the carrier and sufficient to make him liathemselves; you can only know by their acts. These defendants advertise that passengers can proceed nor his agent received any express notice of the fact by the train leaving Hull at 8 45 to London, ar- of the goods having been so deposited. The carthe towns and cities along the lake shores. The riving there at 3 20 P. M. It is for you to say rier, virtually, by his wonted course of business, whether Mr. Raikes by paying his money and receiving in return a piece of pasteboard, entered in- special notice. to contract, and therefore made it binding on the company that they should fulfil the terms of the Within a very short time, the tonnage of iron offer in their advertisement, namely, to convey him and his son to London for £1 14s. 6d. He paid £1 14s. 6d. and received one and a half pieces of pasteboard, and you will have no difficulty in find- for its construction have been invited. The conf ing that that was a contract to carry him to London. But, I musi tell you, that if they had not put ark, and the traffic of this road will be swelled to in that time bill, we could not have proved the exan amount scarcely paralleled by any other road tent of this contract, which is, that they will use their best endeavors to carry out what they have advertised; that is to say, that the contract shall not fail from any neglect or mismanagement on greatly encouraged us to persevere in this arduous their part. I am of opinion that there was a conundertaking. The country has about made up the tract between Mr. Raikes and the York and North sum expected from that source. About \$75,000 is not fail from any neglect or mismanagement on will soon have a large and active population Midland railway company to carry him to London by the train leaving Hull at 8 45 A. M. and reaching King's Cross station at 3 20 P. M. A variety of accidents might inevitably prevent the arrival of the train in London at the stipulated time. The true question is, whether or not the railway company have been guilty of negligence; therefore, it will be for you to say whether there is any evied in business, having made up his mind that this dence of negligence on their part."

The Judge then went over the evidence in order to see if there was any unnecessary delay in mak- for his benefit.

Verdict for plaintiff-for £5.

NEGLIGENCE.

The question as to what constitutes negligence is particular case.

In the case of Hanny vs. New York and Eric R. R. Company. The New York Superior court has recently again decided that where the carelessness and imprudence of the person injured by a collision County court of Hull, in the case of Raikes vs. the on a railway, contributes to the injury, an action across the track of a railroad, and it appeared that possible for a person on the highway to see the cars coming until he gets upon the track, and it was held that such rapid driving at such a place constitutes a degree of negligence that defeated any right of recovery for damages in consequence of

The court also held that where there is no conflicting evidence on the question of negligence, or where the proofs are such as show beyond a doubt railway company may be no less liable than in case that plaintiff has been negligent, the judge is under of negligence, for a party should only promise to no necessity of submitting the matter to a jury. It is the duty of the court to withdraw the question

DELIVERY.

Delivery to a carrier may be actual or it may be constructive. Merrick vs. Hartford and N. H. raiload Co., 20 Conn. 35.

Where goods were delivered in the usual manner for transportation by a common carrier, by being ble for the loss of the goods, although neither he agreed that goods might be so deposited, without

Albany and Susquehanna Railroad.

The subscribers, the Albany directors of the Sus-quehanna railroad company, beg to state to their fellow citizens the fact of the road having been so far located as to be ready for contract, and that bids dence of the directors in the value of the stock of this road, as well as in the great and wide-spread bene-fits that will accrue to Albany from its construction, is unabated.

As yet, but a small proportion of our fellow-citi-zens to be benefitted by this enterprise have been called upon. Most of those seen have responded to our appeals in the most liberal manner, which has yet required to make up the amount allotted to Albany. This sum we want to secure by the first of December, the day the bids for the construction of the road are to be opened, so that contracts may be immediately made. We have faith to believe, should Albany now promptly respond to this our last appeal, the road can be placed in running or-

great work is to benefit his estate or business, will desire to evade his responsibilities in this matter, or permit his neighbor to assume responsibilities

taken stock; let all classes in Albany, according to their ability, do the same, and an extensive copart-nership between the country and Albany will be formed that will, it cannot be doubted, be of great

advantage to both.

Edward C. Delevan, John N. Wilder,
WM. V. Many, Franklin Townsend, JAMES KIDD. ROBERT H. PRUYN,

E. CORNING, JR.

The above appeal puts the connection between real estate and its value as affected by railroads in the true light. It is almost a piece of dishonesty on the part of the owners of property to shirk their fair quota to a contribution towards these works, when a larger profit than that derived from the roads themselves, ensure to the proprietors of the houses and lots of the cities to which they lead. Of course there are instances where a subscription is impossible, but the meanness is akin to dishonesty of large holders of real estate, who will not subscribe to the building of a railroad when they know that the appreciation is certain, and will be secured to them from the outlay of a neighbor's capital. To be sure there is no law but that of public opinion, and we are glad to see an appeal made to shame this class.

The Albany Evening Journal, promptly seconds the directors, and justly remarks that this road will make Albany the depot of the trade of a vast section of country of great agricultural and mineral wealth, dotted with thriving villages and thickly interspersed with manufacturing establishments. It will not merely enable Albany to hold her own against the heavy drafts which have been made upon her trade by the opening of other avenues, but it will secure a business ten fold greater than that which has been diverted from her, and keep the population on the advance in numbers and prosperity.

Alabama and Tennessee River Railroad.

The grading of this road between Selma and Montevallo is completed, and the laying of the track is progressing rapidly.

#### Notice to Contractors.

The state of the s SEALED PROPOSALS will be received at the Office of the New Orleans, Jackson and Great Northern Railroad Company, in the city of New Orleans, until the 30th of November next, for the grading, masonry, piling and bridging of that part of their road from Lake Maurepas, to the line of the State of Mississippi, a distance of 51 miles.

Also, for the masonry required on the first 36

miles of road from the city of New Orleans to the Lake, at the South Pass Manchac.

The first 9 miles of the section to the State Line,

is through the Lake swamp, and includes the piling and bridging (with one draw) of the South and North Passes, the remainder is through a healthy fine country, which, with the contemplated lettings of the remaining 100 miles to Jackson, Mississippi, render this work well worthy the attention of Northern Contractors.

Payments will be made in cash, with 20 per cent retained until the completion and acceptance of the

Satisfactory evidence of ability will be required

with the proposals.

Plans and profiles will be ready for examination

ten days before the letting.

JAMES CLARK, Chief Engineer.

New Orleans, October 16th, 1852.

A. Whitney & Son,
PHILADELPHIA, PA.,
MANUFACTURERS of Chilled Railroad Wheels
for Cars and Locomotives. Also furnish Wheels
fitted complete on best English and American Rolled
and American Hammered Axles.

31tf

Change of Hours.

### MONTREAL & NEW YORK AND

#### Plattsburgh and Montreal RAILROADS.

Topen through from Plattsburgh to Montreal.

FALL AND WINTER ARRANGEMENT.

ON and after Monday, November 1st, 1852, and until further notice, Passenger Trains
LEAVE MONTREAL FOR PLATTSBURGH at 11.45 A M. and 4.15 P. M. Arrive at 2.46 and 7.37 P. M. FOR OGDENSBURGH at

\*\* FOR OGDENSBURGH at 11-45 A. M.
Arrive 7-15 P.M.
PLATTSBURGH FOR MONTREAL at 12-45 and 7-15 P. M.
Arrive at 3-50 and 9-57 P. M.
\*\* FOR OGDENSBURGH at 17-00 A. D. M. 7·30 A. M. and 12·45 P. M. Arrive at 1·15 and 7·15 P. M.

Trains connect at Montreal with Steamers for Quebec, and the St. Lawrence and Atlantic Railroad for

Sherbrooke and intermediate stations.

Trains connect at Mooers Junction with Northern Ogdensburgh) Railroad for Ogdensburgh and Lake Ontario Steamers for Lewiston, Niagara Falls and Upper Canada, and all ports on the Western Lakes. Trains connect at Plattsburgh by Steamer to Bur-

lington with Rutland and Burlington Railroad and connecting lines for Troy, Albany, New York and Boston, and all intermediate stations. Also with steamers for Whitehall to the Saratoga and Washington Railroad, and connecting lines of road to Troy, Albany and New York.

Albany and New York.

Passengers will find this route unequalled for comfort and dispatch, and attended with less fatigue and delay than any other. It possesses moreover the advantage of a short Ferriage of only fifteen minutes across the River St. Lawrence at Caughnawaga, which has never been known to freeze, and can be

which has never been known to freeze, and can be confidently relied upon at all seasons of the year.

Freight Trains run daily each way.

For particulars see Freight and Passenger Tariff.

Baggage checked through.

ISAAC B. CULVER, Superintendent.

#### RAILROAD CAR TRIMMINGS. DOREMUS & NIXON, No. 21 PARK PLACE,

#### 18 MURRAY STREET. IMPORTERS

OF PLAIN AND FIGURED MOHAIR PLUSH:

Printed and Uncut do. do. entirely new designs: ALSO GERMAN OIL CLOTHS FOR HEAD LININGS Enameled with Gold and Silver and Velvet Printed.

These Headings are the most beautiful ever shown having been made expressly for American Cars. D. & N. are sole Agents.

ALSO, PATENT PARIS COTTON FELT.

This is a patented article, makes a better and more desirable cushion than hair; retains its elasticity longer, and is free from vermin.

It is being extensively used by Car and Omnibus builders, and is sold at about half the price of curled hair.

ALSO, BROCATELLES and MOQUETTS ALSO, CURLED HAIR.

N. B .- D. & N. have the Plush and Linings in bono for exportation. November, 1852.

Railroad Iron.

1500 TONS, weighing about 55 lbs. per yard, now on the way from Great Britain to New Orleans, for sale by P. CHOUTEAU, Jr., SANFORD & CO., No. 51 New street.

November 4, 1852. 4t

Railroad Iron.

1600 TONS Railroad Iron, weighing about 59 lbs. per yard, "Erie" pattern of G L and "Crawshay" manufacture, now on the way from the shipping ports in Great Britain to this port, for sale by P. CHOUTEAU, Jr., SANFORD & CO., No. 51 New street.

November 4, 1852.

#### To Railroad Contractors.

PROPOSALS will be received at the office of the New York and Boston Railroad Co., in the city of Middletown, until the 20th inst., for the grading and masonry for the road bed for a double track of the N. Y. and Boston Railroad.

Proposals are invited for the first, second, and third divisions, commencing at New Haven, and extending easterly about 71 miles. Also, for the

fourth divisions if prepared in time.

Profiles may be examined and specifications of the work can be had by applying at the Company's

CHAS. R. ALSOP, President. City of Middletown, Nov. 1, 1852.

NOTICE.

IN Consequence of the Accident at Windsor Locks, by which Gen. Palmer, Chief Engineer of the New York and Boston Railroad, was severely injured, and is still unable to attend to business, the time limited for receiving Proposals for the Grading and Masonry of 71 miles of the New York and Boston Railroad is extended to December 5th, 1852. CHAS. R. ALSOP, President. Middletown, November 16, 1852. 1t

Fire Bricks.

SCOTCH Patent—for sale in lots to suit purchasers, by G. O. ROBERTSON, 135 Water street, corner of Pine, 1852. New York. November 19, 1852.

#### The Cold Spring Iron Works, INCORPORATED IN 1848.

INCORPORATED IN 1848.

In the Town of Otis, County Berkshire, Massachusetts, manufactures CAR AXLES, and all kinds of WROUGHT IRON used in the manufacture of LOCOMOTIVES and CARS; also, BAR IRON of all descriptions. Particular attention is paid to the manufacture of CAR AXLES, and the Works being situated in a region of WOOD and CHARCOAL, with which their Axles are exclusively made, the Company feel confident they can furnish an article equal, if not superior, in quality and finish to any in the market. They solicit the orders of RAILROAD CORPORATIONS and CAR BUILDERS, and promise they shall be promptly attended to: and executed on terms as advantageous as can be had elsewhere. They refer to—

ed on terms as advantageous as can be seen to the They refer to—
John Kinsman, Esq., Superintendent Eastern Railroad, Salem. Mass.
A. T. Peirce, Esq., Car Builder, Norwich, Conn.
E. T. Osborn, Esq., Superintendent of the Mad River and Lake Erie Railroad, Sandusky City, Ohio.
W. W. Wetherell, Car Builder.

Address HENRY MELLUS, Agent,
Boston, Mass.

or, GEO. W. PRESCOTT, Sup't.
Otis, Mass.

November, 12, 1852.

#### To Contractors.

SEALED PROPOSALS are requested for the Graduation, Masonry, Timber Bridging, and Track-laying of the Albany and Susquehanna Rail-road, extending from Albany to Binghamton: distance 140 miles

The line will be ready for the inspection of Con-tractors on the 16th November, and proposals will

be received until the 8th December.

The work will be divided into sections of about five miles each, and Contractors can include in their proposals as many of these as may suit their convenience.

The Company reserves the right to accept of such proposals as in their judgment will best secure the prompt construction of the road.

All proposals to be sealed and indorsed: "Pro-posals for the Albany and Susquehanna Railroad," and directed to J. P. Kirkwood, 116 State street,

The plans and profiles can be seen at the Engineer's Office, 116 State street, Albany, on and after the 16th of November, where further information can be obtained.

E. C. DELAVAN, President.
JAMES P. KIRKWOOD, Engineer.
Albany, 116 State Street.

Mills, John B., Civil Engineer, Address to care of Wm. Churchill, Jr., New York.

## Volcano Quartz Mining Co.

VOLCANOVILLE, EL DORADO COUNTY, CALIFORNIA.

BOOKS for subscription to \$75,000 of the stock of this company are now open at the office of the company, 78 BROADWAY, New York.

The uncommonly rich claims of this company hold out inducements, to those who are disposed to

hold out inducements, to those who are disposed to invest capital in quartz mining in California, not surpassed, if, indeed, equaled, by those of any other company in that state.

The extraordinary richness of our quartz, as was witnessed by thousands at the late Fair of the American Institute, and the extent of our claims, together with the peculiarly favorable location for economical working upon a large scale, will ensure the most ample and satisfactory returns upon the investment. vestment.

vestment.

It is well understood by practical men that, with machinery working twenty tons of quartz, paying two cents per lb., large profits will be realized upon each day's work. It is the intention of the company each day's work. It is the intention of the company to obtain machinery sufficient to work fifty ton per day, and to work it in the most economical manner, by which they feel confident of being able, from their stock which will yield from two cenis to twenty dollars to the lb., to make returns to their shareholders which will not only satisfy, but survive them prise them.

prise them.

It will be seen, by reading the pamphlet, containing the charter, the laws of California, and the details of our plans of operation, that our estimates are based upon two cents per lb., and the expenses of working the mill are but, at present high prices for labor, while it is well known to all who reflect upon the matter that, as the cost of labor shall be reduced, the income will be materially enhanced. If we work 40 tops per day, and yet two cents of the context of

If we work 40 tons per day, and yet two cents per lb., it will yield \$16, while three, four, or five cents per lb., would give a proportionate increase of receipts, the expenses of working the mill would not be increased a dollar, and will be less than \$470 a

be increased a dollar, and will be less than \$470 a day.

Subscriptions can be made by mail, enclosing, ten per cent on the amount, of the balance, twenty per cent to be paid on the 29th of Nov. inst., and seventy per cent on the 29th day of December next, when certificates of stock will be issued.

Pamphlets, containing the statute of California in relation to corporations, the rules and regulations of our locality, the charter and by-laws of the Co., together with much other interesting and useful matter, including a map of a portion of the northmatter, including a map of a portion of the northern mining regions may be had gratis at the office of the company, No. 78 Broadway, or by mail on application, (postage paid.)

TRUSTEES OR DIRECTORS.

NICHOLAS DEAN, ROBERT M. STRATTON, NATHANIEL CONKLING, of New York. D. K. MINOR JOB S. HEARN, SUMNER WHITNEY, BENJAMIN C. DONNELLAN, JAMES CLOWDSLEY JAMES ALLEN, D. K. MINOR

D. K. MINOR, President, JAMES CLOWDSLEY, Vice President.

NICHOLAS DEAN, Treasurer. NATHANIEL CONKLING, Secretary. New York, Oct. 25, 1852.

Oxford Furnace, N. J. ESTABLISHED A. D. 1743.

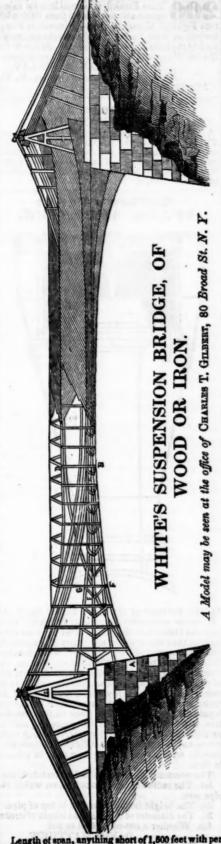
THE Subscriber manufactures and keeps constantly on hand for sale, every variety and size of Railroad Wheels, made from the celebrated Oxford Iron. All orders addressed to CHAS. SCRANTON, Oxford Furnace P. O., will be attended to promptly. Sept. 11, 1852. ly\*

Railroad Iron.

1400 TONS Railroad Iron, weighing about 55 lbs. per yard, of an approved pattern, now in bond, for sale by in bond, for sale by P. CHOUTEAU, Jr., SANFORD & CO., No. 51 New street.

November 4, 1852.

Huger, T. P., Northeastern Railroad, Charleston, S. C.



Length of span, anything short of 1,500 feet with perfect safety for every kind of travel. The above cut represents a Wooden Bridge with a roof. The arrangement for the Iron Bridge is such as to avoid all the bad effects of changes of Temperature. For a full description, see pamphlets; for further information, respecting models, rights, &c., apply, by letter or otherwise, to Anmi Whitz, or Joshua P. Thayer, Proprietors,

Mississippi and Atlantic Rail-

Mississippi and Atlantic Railroad, from Terre Haute
to St Louis.

BOOKS OF SUBSCRIPTION TO THE CAPITAL STOCK OF THE MISSISSIPPI & ATLANTIC RAILROAD COMPANY, an organization under the General Railroad Law of the State of Illinois, for the construction of a Railroad from Terre Haute, Indiana, to St. Louis, Missouri, will be opened under the direction of Messrs WINSLOW, LANIER & CO., at their office, No. 53 Wall street, in the city of New York, on SAT-URDAY, the 6th day of November, 1852, and remain open until the stock of said company shall be subscribed.

The Capital Stock of said Company is TWO

The Capital Stock of said Company is TWO MILLIONS OF DOLLARS, of which Four Hundred and Seventy Thousand Dollars has been taken, leaving the sum of One Million Five Hundred and Thirty Thousand Dollars open to present subscription.

tion.
This stock has been divided into shares of FIFTY DOLLARS each.

TEN DOLLARS per share will be required to be paid at the time of subscription, and the remainder will probably be called through the whole of the year 1853.

year 1853.

Stock payments will draw seven per cent interest
—payable on the first days of each July and January in the city of New York, until the completion
of the work, when regular dividends will be made
from the earnings of the road.

The first payment of interest will be made on the
first day of July, 1853.

Books for the transfer of the stock will be opened
and permanently kept in the city of New York, upon which the stock will be transferable after the
payment of the first instalment.

This road is 170 miles in length, of which over

This road is 170 miles in length, of which over

165 miles is straight line.
On over two thirds of the line the grades are under twenty feet to the mile, and the maximum grade is

less than forty feet.

It is the last uncompleted link in the great chain of railroads from New York, Boston, Philadelphia and Baltimore to the city of St. Louis.

and Baltimore to the city of St. Louis.
It is the most direct route, and must be a valuate road, and its stock a good investment.
It is designed to complete the road within eighteen months to two years; and it will be built under the personal supervision of the President, JNO.
BROUGH, Esq.
Messrs. Winslow, Lanier & Co. will turnish maps of the connections, profits of the route, and the prospectus of the company, containing full particulars as to the organization and prospects of the work, upon application at their office.

SALMON A. PHELPS.

ork, upon application at their office.

SALMON A. PHELPS,

MICHAEL G. DALE,

NATH. M. McCURDY,

DEAN ANDREWS,

Commissioners.

WINSLOW, LANIER & CO., Agents.

New York, November 1st, 1852. 2t

#### Notice to Bridge Builders.

Office East Tennessee and Virginia R.R. Co. Jonesborough, 28th October, 1852.

Jonesborough, 28th October, 1852. 

Proposals will be received at this office until the 15th day of December next, for the superstructure of three single track Railroad Bridges, two across the Holston river, and one across the Watanga river, all on Pratt's or Howe's plan. The length of the bridges are 200, 300, and 400 feet respectively. The one of 400 feet is to be built with a draw of 50 feet. The bids must include covering, sideings, painting, and everything necessary to complete said Bridges.

The Board claim the right to reject the whole of

The Board claim the right to reject the whole of said bids, if none are found to be satisfactory.

Proposals to be addressed to the undersigned.

By order of the Board.

WM. G. GAMMON,

Sec'y and Treas. E. T. & Va. R. R. Co.

Dudley B. Fuller & Co., IRON COMMISSION MERCHANTS, No. 139 GREENWICH STREET, NEW YORK,

LOW MOOR AXLES, A SUPERICR Article for Railroad Cars, supplied by the Manufacturers' Agent-WM. BAILEY LANG, 9 Liberty Squere, Boston.

## To the Owners of Furnaces, Forges and Rolling Mills,

ENGAGED IN THE MANUFACTURE OF IRON IN NEW JERSEY AND ADJOINING STATES.

THE Subscriber proposes to sell, or lease for a term of years, his well known Iron Mine, at Suckasunny, in Morris County, State of New Jersey, situated nine miles from Morristown, and three from Do-

Offers to purchase or lease the same will be thank fully received at the mine, till the first day of December next, by the subscriber.

MAHLON DICKERSON,

Suckasunny, N. J.

September 9, 1852.

2m

## LOW MOOR IRON.

WM. BAILEY LANG, 9 Liberty Square, Boston, Sole Agent in the United States and Canadas for the Low Moor Iron Co., is prepared to receive orters for this justly celebrated Iron, and offers for sale an assortment of the Round sizes which be now has in store, and which for strength, soundness and uni-form quality, stands without a rival.

#### Griffith's Patent Double Machine for making Wrought Iron Railroad Chairs.

THE undersigned, in calling the attention of the public to the superiority of his Patented Ma-chine for making Wrought Iron Chairs, desires to point out the following advantages which it poses over all others :

First. It adds to the lips of the chair very considerable strength, which cannot be obtained by any other machine with the same size of plate; and it renders the chair perfect without the aid of a hammer to fit the cross tie, so that it can be firmly unit-

ed with a rail of any required size now in use. Secondly. These machines are got up cheap and strong, and are so constructed as to make two sorts or sizes of chairs at the same time, with the same or sizes of chairs at the same time, with the same amount of labor as though working a single machine; so that, double the amount of labor is obtained with the same number of hands, besides the saving of coal in the furnace. These facts demonstrate the great advantage and superiority of my Patent Double Machine over all others yet introduced.

All letters, and orders for machines, patent rights,

etc., will meet with immediate attention.

Please address ROBERT GRIFFITH,

1m39 Newport, Kentuck

Newport, Kentucky.

#### Gerard Ralston,

21 TOKEN HOUSE YARD, LONDON, OFFERS HIS SERVICES FOR THE

## PURCHASE AND SALE OF AMERICAN SECURITIES,

DEBTS, LEGACIES, ETC., d for the Purchase and Inspection of Railroad Iron, Chairs, or any kind of Machinery.

REFERENCES Messrs Palmer, McKillop, Dent & Co., London.

George Peabody & Co, London.

Curtis, Bouve & Co, Boston.

Richard Irvin, Esq., New York.

Robert Ralston, Esq., Philadelphia.

C. C. Jamieson. Esq., Baltimore.

## Smith & Tyson., IRON COMMISSION MERCHANTS, BALTIMORE.

REFINED Juniata Charcoal Billet Iron for Wire,
Do. for Bridging, of great strength.

Mat Rock, Boller and Flue Iron, rolled to pattern.

Etha, Wheel Iron of great strength and superior chilling properties. Elba Forge Iron, American ShoIron, Cut Nalla, Spikes and Brads, Nail and Spike
rods, Railroad Spikes of superior quality, Wreught
Chair plates of any pattern, punched or plain.

Iron.

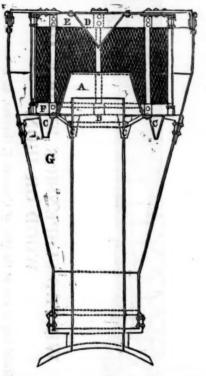
Tons Fishkill Charcoal Iron for sale on reasonable terms, also from 1000 to 5000 tons Fishkill Hematite Ore—delivered at Poughkeepsie or New York. Samples of the ore may be seen at the store of Messrs. Hoffman, Bailey & Co., No. 62 Water st., New York. Enquire by letter to NORMAN M. FINLAY,

Poughkeepsie, Dutchess county, N. Y. July 10, 1851.

I. Dennis, Jr., WASHINGTON, D. C.,

A TTORNEY for Inventors, and Agent for Procuring Patents—Practical Machinist, Manufacturer and Draughtsman, of 20 years' experience. Circulars containing important information, with a map of Washington, sent to those who forward their address, and enclose a stamp.

#### Matthew's Patent SPARK ARRESTER.



THE Patentee of the above named Spark Arrester invites the attention of Railroad Directors and Officers of Railroads, who have no other interest than the comfort and safety of passengers, and the economy of their company, to test them and judge for themselves. To all such persons, the Patentee will furnish his Patent Spark Arrester free Patentee will turnish his Patent Spark Arrester free of charge, by such parties sending the necessary dimensions. And the price will be, for the Spark Arrester and Chimney, with patent right to use and repair the same, all ready to place on the Locomotive, \$130—if approved; if not approved, and returned, no charge made. He warrants them superior to any in use, in all points, lighter, cheaper, more durable, safer, cleaner, saving from 15 to 20 per cent in fuel

The necessary dimensions to be furnished, are: 1st. The radius of the smoke box, on which the

pipe sets.
2d. The height from smoke box to top of pipe. 3d. The diameter of cylinder and length of stroke.
4th. Whether a cut-off is used or not.
DAVID MATTHEW,

Penn st., (one door north of Almond st.,)
Philadelphia, Pa.

Office of the Syracuse and Utica R.R. Co., Syracuse, August 18, 1842. This company have several "Patent Spark Ar-resters and Chimneys" upon their occomotive en-

gines, which were furnished by David Matthew, constructed according to the specification attached to his patent.

They are by far the best smoke pipe and spark rester that we have tried or seen.

No inconvenience from sparks or cinders is suffered by the passengers; nor is the draft impeded.
We consider them a great improvement, and regard them as almost indispensable in our business.

JOHN WILKINSON, President.

Office of the Auburn and Rochester R.R. Co.,
Canandaigua August 26, 1842.
This may certify, that there has been in use on
the Auburn and Rochester railroad, for the last two
years, eight of Matthew's "Patent Spark Arresters," which have given the most perfect satisfaction. From the use of the Arresters on this road, and what I have seen of them elsewhere, I have no doubt but

that they are the best in use in the country.
R. HIGHAM,
Supt. and Engineer A. & R. R. R.
To David Matthew, Machinist.

Auburn and Syracuse R. R. Office, August 29, 1842. Dear Sir—The three Spark arresters of your patent, which we have in use on our road, have given perfect satisfaction, and we consider them superior to any now in use, combining as they do the power of arresting the sparks and cinders, without affecting the draft of the engine. Respectfully yours, E. P. WILLIAMS, Superintendent. M. W. MASON, Supt. of Machinery.

To DAVID MATTHEW, Esq.

Rochester, August, 1842.

We, the undersigned, have used D. Matthew's Patent Spark Arresters and Chimney on the locomotive engines used on the Auburn and Rochester railroad, of different manufacturers, viz: Rogers, Ketchum & Grosvenor, Norris, and Eastwick & Harrison, for more than one year; and all the engines using these Spark Arresters and Chimney have made steam as Iree as with any other pipe we have eye used; and we believe the draft is as good have ever used; and we believe the draft is as as any other pipes of the same dimensions, and prevents the escape of sparks and cinders. There has not been any expense for repair on the Spark Arnot been any expense for repair on the Spark Arrester or Chimney since they have been put on the
locomotive engines; and we further think that they
will last for years with little or no repairs.

THOS. SNOOK, Supt. M. P.
CHARLES W. HIGHAM,
N. C. MARTIN,
WM. HART,

Locomotive Engineers.

Syracuse, August 21, 1842. We, the undersigned, locomotive engineers on the Syracuse and Utica railroad, have used during the last two years, David Matthew's "Patent Spark Arresters and Chimneys," and on our engines we have been able to generate steam as freely as with any other pipe we have ever used. The draft is as strong and free as that of an open pipe of the same diameter, and most effectually prevents the escape of fire and cinders. There have, as yet, been no repairs required to any of these pipes, and we be-lieve they may be used for years with but trifling expense to keep them in perfect order. We certainly consider this pipe a great improvement over any other with which we have been acquainted.

DAVID BEGGS, Supt. M. P. PETER GRANT,
WILLIAM McGIBBON,
WILLIAM CESSFORD,

JAMES BONNER, JOHN VEDDER, Jr. Locomotive Engineers.

Syracuse, April 4, 1847.

Mr. DAVID MATTHEW:

Mr. DAVID MATTHEW:

Dear Sir—Your letter came duly to hand, in relation to the Spark Arresters. Those which we use are all of your patent; and on the neighboring roads we got others to try, but they were not good, and we had to substitute yours.

I am, dear sir, yours respectfully,

DAVID BEGGS,

DAVID BEGGS,

DAVID Regge,

E. M. P. Sy. and Utica Railroad.

Utica and Schenectady Railroad Office, May 5, 1847.

Respectfully your ob't sery't, WM. C. YOUNG Supt. and Eng. U. & S. R. Co.

Locomotive Works, Philadelphia, February 2, 1850.
Mr. David Matthew, Vulcan Works, Baltimore

Patterson, N. J., Feb. 6, 1850.

Mr. David Matthew, Baltimore:
Dear Sir:—Your favor of the 31st January is re-Dear Sir:—Your favor of the 31st January is received. When we used your Spark Arresters on our locomotives they gave entire satisfaction, and we should have continued to use them if we could have procured them; but the gentleman at Catskill, who, we understood, had made arrangements with you respecting the sale of the right to use them, refused to furnish them, except there was an agreement made for selling the right to the whole road. This we could not do, which compelled us to procure our Spark Arresters elsewhere.

We have often been applied to for your Spark Arresters; but as we could not procure them, we have been obliged to furnish others.

Your Spark Arresters have been highly spoken

Your Spark Arresters have been highly spoken of by all those that we know who have used them,

and we think they are equal to any in use.

Very respectfully,

ROGERS, KETCHUM & GROSVERNOR. Per S. J. ROGERS.

Utica and Schenectady Railroad Office, Schenectady, Feb. 19, 1850.

Dear Sir-I received yours of January 25th, in reply to smoke-pipes, we consider the Spark Arrest-er of yours, used by us, far superior to any in use. Respectfully, your obedient servant, C. VIBBARD, Sup't U. & S. Railroad.

Mr. DAVID MATTHEW-

Mr. David Matthew—
Dear Sir:—In reply to your enquiries I have to state, that I have been engaged in the manufacture of your "Spark Arrester and Smoke-Pike for steam engines," for over ten years last past.

I have no hesitation in saying, that your "Spark Arrester is the best that has ever been in use in

this country. I have seen all others, or nearly all others tried, but your invention, as patented 31st December, 1840, possesses all the requisites for railroad and other uses in a degree decidedly superior to them all. I am now employed as an engine builder in the establishment of the Hudson River Railroad, and after a careful trial of all the spark arresters and pipes most esteemed in this country, we have found yours to be decidedly the best, and, in this opinion I am supported by the chief super-intendent of motive power of that road, who has so expressed himself to me.

I am, very respectfully, your ob't serv't, JOHN TAYLOR.

David Matthew, Esq:
Dear Sir-Your "Patent Spark Arrester," has been in use on our Locomotives since 1840, during road. been in use on our Locomotives since 1840, during which time we have tried several of a different construction. We can recommend yours as being the most effective and economical of any used by us. Little or no inconvenience from sparks is suffered by passengers; nor is the draft obstructed. From the best estimate we can make they can be kept in appair for about ten dollars each per year.

C. VIBBARD, Superintendent.

V. BLACKBURN, Mast, Ma.

Office of the Syracuse and Utica R. R. Co.,

Syracuse, August 7, 1851.

My Dear Sir:—I am glad that you obtained your right of building Spark-Arresters, and most certain-Mr. David Matthew:

Sir:—In regard to the "Spark Arrester." several kinds have been tried; but yours, as you left it, has been constantly in use. We have your patent on I think they are using them pretty generally on the fifteen engines, and use no other kind. Nothing the Hudson River R. R., and all the other patents which have been made since the date of yours, are copies have been made since the date of yours, are copies. in some degree, from yours. Anything that I can do to forward your interests in this matter will be done with cheerfulness. I think of going to Philadone with cheerfulness. I talk a lon you. delphia this summer, and shall call on you.

D. BEGGS.

Utica and Schenectady Railroad Office,

Dear Sir:—Your letter of 30th ultimo reached us only this morning, and in reply we would state, that we have not had much opportunity of judging of the merits of your Pipe in comparison with others, but that on the Utica and Schenectady Railroad, where we have a number of our engines running, your Pipe is exclusively used, and preferred to all others.

Yours, very truly, NORRIS, BROTHERS. time, they afford the necessary draught, and com-pletely stop the sparks. I cheerfully recommend them to the attention of railroad companies and manufactures of locomotive engines.

ANDREW C. GRAY

Pres't Newcastle Manufacturing Co.

Albany, September 8th, 1851.

Gen. W. SWIFT:

Dear Sir—This will serve to introduce to your favorable notice Mr. David Matthew, who is the inventor, and holds the patent for a Spark Arrester, which has been used by many of our railroads on their locomotives. I consider it a valuable improvement, and do not doubt but Railroad Compa-nies will generally use it. Yours respectfully, ERASTUS CORNING.

Office Hudson River Railroad, New York, February 14, 1852.

D. MATTHEW, Esq., Dear Sir-I am so little acquainted with the merits of different kinds of Spark Arresters, that I do not feel competent to give an opinion for publication. I know that your Arrester is a good one, and has been highly esteemed on the roads where I have been employed. But I have not sufficient practi-cal knowledge of the subject, to venture any com-parison of its merits with other kinds of arresters. O. H. LEE, H. R. R. Yours truly,

Office of the Hudson River R. R., 31st st., New York, May 16, 1852.

Mr. DAVID MATTHEW: Dear Sir-I have been acquainted with your Spark Arrester since its introduction, and have carefully watched its operation in comparison with

many others. I have no hesitation in saying, that as a Spark Arrester without diminution of draft, it has no equal in use. I have been able to use a much larger exhaust pipe than with other pipe, and, from experiments recently made, I am satisfied that the Cap, or Spark Arrester, is no impediment to the draft of the open chimney. Very respectfully, ELENRY WATERMAN,

Superintendent of Motive Power.

I have this day purchased the right to use the above pipes on the Saratoga and Washington railtoad, and concur in all that Mr. Sargent has said of them.

J. VAN RENSSELAER,

Superintendent S. & W. R. R. Saratoga Springs, May 22d, 1852.

Albany and Schenectady Railroad, Albany. Having used Mr. Matthew's Spark Arrester on our engines, and considering it a valuable invention, we have purchased the right to use it on our road.

E. C. M'INTOSH, President.

Schenectady and Troy R. R. Office, Troy, July 20th, 1852. I have this day purchased the right to use Mr. Matthew's Spark Arrester on this road; I have been acquainted with this Spark Arrester for ten years, and consider it the best that has come under my notice.

EDWARD MARTIN, notice. Superintendent S. and T. R. R.

Office Rensselaer and Saratoga Ratiroad

Troy, May 221, 1852.
This may certify that I consider the Patent Locomotive Smoke Pipes and Spark Arrester of D. comotive Smoke Pipes and Spark Arrester of D. Matthew's as more economical and safe than any now in use. It is more durable, and throws less fire and cinders, without impairing the draft, they have been in constant use upon the different roads under my charge since 1841, as have all the other various kinds now used, and after this long experience and careful observation, I am entirely satisfied that those invented by Mr. Matthew are decidedly the best, and I have secured the right to use the same by this company, and the Saratoga and Schenectady railroad company, by purchase made yesterday.

L. R. SARGENT, Superintendent.

I have this day purchased of Mr. Matthew the right to use his Spark Arresters on the Syracuse and Utica railroad. I believe it is the best pipe there is.

JOHN WILKINSON, President S. & U. R. R.

Syracuse, July 16, 1852.

I have this day purchased of Mr. David Matthew the right to use his Patent Spark Arrester on the Rochester and Syracuse railroad, during its present term, and renewal or extension, believing it to be the best Arrester now in use.
CHARLES DUTTON, Supt.

Superintendent's Office Buffalo and Rochester Railroad Co., Buffalo, July 29, 1852.

David Matthew, Esq., has this day conveyed to this company the right to use his Spark Arrester patented in 1840. It has been in use on this road for some years past, and gives better satisfaction than any other improvement claiming the name of Spark Arrester.

HENRY MARTIN Superintendent, J.

REFERENCE is made to the following Gentlemen and Companies, with whom Agencies have been established for the sale of the Spark Ar-

rester, and rights under the Patent :-

rester, and rights under the Patent:—

Erastus Corning, Esq., Albany, N. Y.; Messrs Rogers, Ketchum and Grosvenor, 74 Broadway: New York city, and at their Works in Patterson, N. J.; The New Jersey Locomotive Machine Company, at Patterson N. J., James Jackson, President,—address also at Patterson, Messrs William Swinburne & Co., Locomotive Builders, Patterson, N. J.; Messrs. Norris, Brothers, Philadelphia, Pa.; M. W. Baldwin, Esq. do; A. C. Gray, Esq., Newcastle Manufacturing Company, Newcastle Delaware; the Schenectady Locomotive Iron Works, Schenectady, N. York; The Boston Locomotive Works, Boston, Mass.; The Taunton Locomotive Works, Rochester, N. J.; Clute & Brothers Schenectady; Peter Smith, Albany, N. York; Thomas Snook, Rochester, N. Y.; Nashville Manufacturing Company, Nashville, Tenn.; Niles & Co. Cincinnati, Ohio; Cuyahoga Works, Ohio City.

All applications for the use of the above Patent

All applications for the use of the above Patent Rights, etc. for the New England States, and New York, East of the Hudson River, to be made to H. VAN KURAN, Boston Locomotive Works, Mass., or to D. MATTHEW, Patentee, Philadelphia, Pa.

or to D. MATTHEW, Fatence, I make the NOTICE.—Railroad Companies getting new engines, can have Matthew's Patent Spark Arrester placed on them, by applying to the manufacturers, so that the apparatus costs them nothing but the patent right. This they will find of great advantage to them.

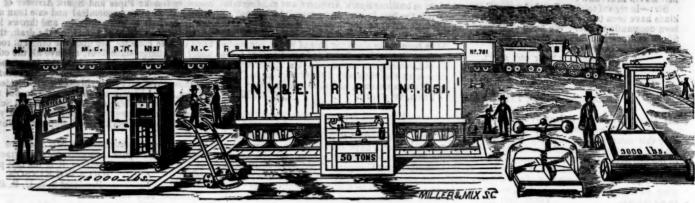
D. M.

### To Railroad Co's, Locomotive Builders and Engineers.

THE undersigned having taken the Agency of Ashcroft's Steam Gauge, would recommend their
adoption by those interested. They have been extensively used on Railroads, Steamers and Stationary
Boilers, where, from their accuracy, simplicity. and
non-liability to derangement, they have given perfect
satisfaction. In fact, for Locomotives, they are the
only reliable Gauge yet introduced.

CHAS. W. COPELAND,
Consulting Engineer, 64 Broadway.
Aug. 28, 1851

## ROCHESTER SCALE WORK



DEPOT SCALE, 6: TONS AND FIRE KING SAFE. CE SCALE,

RAILROAD MANIFEST PRESS. TRON SCALE. 1 1-2 TONE.

#### DURYEE & FORSYTH, MANUFACTURERS, ROCHESTER, N. Y.

of their being made stronger and more substantial, more material used in the construction of the Levers.

new and improved machinery, and the central posi-tion we occupy for shipping to the different markets, enables us to undersell other makers of similar scales from 10 to 15 per cent.

All orders will receive prompt attention.

DURYEE & FORSYTH.

GENERAL DEPOTS Wm. T. Pinkney, Jr., Agent, 166 Pearl st., N.Y.
Raymond, Ward & Co.,
Mumford & Hosken,
Crawford & Reynolds,
Joseph E. Elder,
Byram, Millier & Shreve,
Louisyille, Ky.

The following Railroads have been furnished with our Scales and Wares, exclusively or nearly so:

New York and Erie, New York and Harlem, New York and N. Haven Cleveland and Columbus, Michigan Central, Mad River and Lake Erie, Paterson and Hudson R., Cincinnati, Hamilton and Sandusky, Mansfield and Newar Indianapolis and Bellefon

Dayton, Buffalo and Rochester, taine,
Syracuse and Utica,
Columbus and Xenia,
Lexington and Frankfort,
Hillsboro' and Cincinnati,
Greenville and Miami, Rochester and Syracuse, Louisville and Frankfort, Chicago and Galena, Dayton and Western, Central Ohio, Greenville and Miami, Cent Cayuga and Susquehanna, Chen Rome and Watertown, Illim Rutland and Washington, Buffa Rie and State Line, Clev Rochester, Lockport and Mica Rome Hon. Canal Commissioner the Eric Canal Enlargement. Chemung, Illinois Coal Company, Buffalo and State Line, Cleveland and Pittsburg,

Michigan Central R. R. Office, Betroit, May 10th, 1852.

Report on Duryee & Forsyth's Weigh Lock Scale, by the Committee of the State Agricultural Society.

The Committee appointed to examine the Weigh Lock Scale in the City of Rochester, manufactured by Messrs. Dunyer & Foreyth, of said city, have performed the duty assigned them, and report that they regard it as an admirable piece of mechanism, which reflects great credit on the builders. Length of Scale, 60 feet; width, 20 ft.; height, 32 ft.; weight of scale, 75 tons: capacity of weighing 400 tons.

Considering the weight and strength of the materials used the deliceve and accuracy of this apparatus

two millions of bushels of wheat, five millions and bushels of wheat, five millions of bushels of wheat, five millions of bushels of wheat, five millions of bushels of corn, one hundred and fifty thousand small additional weight within five pounds.

Any description of this Scale would hardly be intelligible without drawings, which the committee have read hours.

Any description of this Scale would hardly be intelligible without drawings, which the committee have lot at command. It has no equal known to the committee. They recommend that a Gold Medal be awarded to Duryre & Forsyth, for the manufacture of an article so important to the protection of the revenue of the Eric canal, and to the accurate weighing of an incalculable amount of private property.

The iron rails for more than fitty miles of the road have been purchased. Ten miles of the road, and in operation in November next, which will make a continuous railroad of about 70 miles from Cincinnati, by way of Hamilton, Eaton and Richmond. ne, Cleveland and Pittsours, of an article so important to the accurate weighin and Michigan Express Co., Commissioners, and Engineers of Enlargement.

Of an article so important to the property of an incalculable amount of private property.

C. DEWEY, DANIEL LEF.

Rochester Sept. 20th, 1851.

THE Subscribers are prepared to furnish upon order, RAILBOAD SCALES of superior quality at reder, RAILBOAD SCALES of superior quality at redered rates; Warehouse Trucks: Manifest Presses and Books; also, Covern's Fire King Sares.

They have kept in adjustment well, retain their sensitiveness, and we regard them as strong, accurate, reliable, and in every respect satisfactory.

Respectfully yours,

J. W. BROOKS, Supt.

\$200,000 SEVEN PER CENT.

CONVERTIBLE BONDS OF THE NEW-CASTLE and RICHMOND RAIL-Track, Depot and Portable Scales in the market; the bearing edges are made of the best Cast Steel, well tempered, and great care taken in their adjustment.

A large majority of the Track, Depot and Portable Scales in use by the New York and Erie Railroad Co. were farnished by us. Also, the Michigan Central Railroad is furnished exclusively with our Scales.

The facilities that we have for manufacturing with new and improved machinery, and the capture of the State of th

I am very respectfully, your ob't serv't,
SAM. BROWN, Gen'l Freight Ag't.

The following Report was made by the Hon. Canal
Commissioners of the Erie Canal Enlargement, to the
Legislature of the State of New York, Feb. 3d, 1852.

WEIGH LOCK SCALE.
It is but justice to say that the new Weigh Lock
at Rochester abundantly sustains the reputation claimed for it by its worthy and scientific builders.
Messrs. Duryee & Forsyth have constructed for this
lock, scales of superior power, and may well challenge comparison with any similar work in or out of
the State. The mode of adjustment is so easy and
simple, that great certainty is secured in determining
large or small weights.

within five years.

These Bonds are secured by a mortgage executed by the Company to George Carlisle, of Cincinnati, and Joseph B. Varnum of New York,
Trustees of the road from Richmond in Wayne
County, to New-Castle in Henry County, including the superstructure, iron rails, depots, tolls, priwithin five years.

These Bonds are secured by a mortgage executed by the Company to George Carlisle, of Cincinnati, and Joseph B. Varnum of New York,
Trustees of the road from Richmond in Wayne
County, to New-Castle in Henry County, including the superstructure, iron rails, depots, tolls, priwithin five years.

These Bonds are secured by a mortgage executed by the Company to George Carlisle, of Cincinnati, and Joseph B. Varnum of New York,
Trustees of the road from Richmond in Wayne
County, to New-Castle in Henry County, including the superstructure, iron rails, depots, tolls, priwiters and franchises of the Company. This
mortgage is the FIRST AND ONLY LIEN upon
this section of the Road, which is a part of the
great Trunk Railroad from Cincinnati to Chicago.
The New-Castle and Richmond Railroad extends
from Richmond to Logansport, 103 miles, the
whole of which is under contract, and about one
thousand hands are now employed on the road.
The total amount of stock subscribed upon the

The total amount of stock subscribed upon the whole road is \$509,400. The stock applicable to the construction of the road from Richmond to New

of scale, 75 tons: capacity of weighing 400 tons.

Considering the weight and strength of the materials used, the delicacy and accuracy of this apparatus for weighing loaded canal boats of the largest class, this scale excites universal admiration. One of the committee tested it when and a the result in the root purpose.

The local business alone would be sufficient to make the road profitable. The counties of Indiana through which it runs produce annually more than two millions of bushels of wheat, five millions of suppose of the root purpose.

The holders of the bonds will have for ther secu. rity the obligations of the company, with subscrip-tions of stock to the amount of more than half a Michigan Central R. R. Office, Detroit, May 10th, 1852.

I IDEAS. DURYER & FORSYTH,
Rochester, N. Y.,

Gentlemen: We have in use upon our road nearly one hundred of your Scales, comprising most of the lion. We have also received the DIPLOMAS and CAMMANN WHITEHCUSE & Co. 56 Wall-st.